Self Diagnosis Supported model

SERVICE MANUAL

GDM-C520/C520K

GDM-C520K

AEP Model

Chassis No: SCC-L49B-A

21CR1 CHASSIS

SPECIFICATIONS

Picture tube	0.24 mm aperture grill pitch (center) 21 inches measured diagonally 90-degree deflection FD Trinitron
Video image area	(19.8" maximum viewing image) Approx. 403.8 X 302.2 mm (w/h) (16 x 12 inches)
Resolution	Horizontal: Max. 1600 dots Vertical: Max. 1200 lines
Standard image area	Approx. 388 x 291 mm (w/h) ($15^{3/8}$ x $11^{1/2}$ inches)
Input signal	
Video	Analog RGB (75 ohms typical) 0.7 Vp-p, Positive
Sync	H/V Separate or Composite TTL Polarity Free (2k ohms impedance) Sync on Green 0.3 Vp-p, Negative
Power Consumption	135 W (with no USB devices connected)
Deflection frequency	Horizontal: 30 to 130 kHz Vertical: 48 to 170 Hz
AC input voltage/current	100V to 240V, 50- 60Hz, 2.0-1.0A
Dimensions	497 x 499 x 487 mm (w/h/d) ($19^{3/4}$ x $19^{1/2}$ x $19^{1/5}$ inches)
Mass	Approx. 30 kg (66 lb 2 oz.)
Plug and Play	DDC2B/DDC2Bi, GTF*

*If the input signal is Generalized Timing Formula (GTF) compliant, theGTF feature of the monitor will automatically provide an optimal image for the screen.

Design and specifications are subject to change without notice.

TRINITRON® COLOR MONITOR

SONY®

9-978-999-01

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POWER MANAGEMENT

The power saving mode complies with the VESA Display Power Management Signaling standard. Each state of power management shall be activated by the host computer terminating the appropriate sync signals. Blanking the video must precede termination of the sync signals. The elapsed time counter shall also be controlled by the host computer. Reactivation of the monitor shall be accomplished from the host computer by re-establishing the normal sync signal.

	Power consumption mode	Screen (video)	Horizontal sync signal	Vertical sync signal	Power consumption	Recovery time	⏻ Indicator
1	Normal operation	active	yes	yes	≤ 135 W	--	Green
2	Active-off* (deep sleep)**	blank	no*	no*	≤ 3 W		Orange
3	Power-off	--	--	--	0 W (approx)	--	Off

* When your computer enters power saving mode, the input signal is cut and NO SIGNAL appears on the screen before the monitor enters active mode. After a few seconds, the monitor enters power saving mode.

* "Deep sleep" is power saving mode defined by the Environmental Protection Agency.

DIAGNOSIS FUNCTION

When a failure occurs, the STANDBY/TIMER lamp will flash a set number of times to indicate the possible cause of the problem. If there is more than one error, the lamp will identify the first of the problem areas.

	Status	Area of Failure	LED Indication
1	Failure 1	+B	Amber (0.5 second) / Off (0.5 second)
2	Failure 2	Horizontal/Vertical Deflection Failure Thermal Protector	Amber (1.5 second) / Off (0.5 second)
3	Failure 3	ABL Protector	Amber (0.5 second) / Off (1.5 second)
4	Failure 4	HV Failure	Amber (0.25 second) / Off (0.25 second) Amber (0.25 second) / Off (1.25 second)
5	Aging/Self Test		Amber (0.5 second) / Off (0.5 second) Green (0.5 second) / Off (0.5 second)
6	Out of scan range		Green (OSD Indication)

Aging Mode (Video Aging): During Power Save, press MENU button for longer than 2 seconds.
Self Test (OSD Color Bar): During Power Save, push up Control button for longer than 2 seconds.
Reliability Check Mode: During Power Save, push down Control button for longer than 2 seconds.

TIMING SPECIFICATION

MODE AT PRODUCTION	MODE 1	MODE 2	MODE 3	MODE 4
RESOLUTION	640 X 480	1600 X 1200	1920 X 1440	1920 X 1440
CLOCK	25.175 MHz	229.500 MHz	341.000 MHz	297.000 MHz
--HORIZONTAL--				
H-FREQ	31.469 kHz	106.250 kHz	128.485 kHz	112.500 kHz
	usec	usec	usec	usec
H. TOTAL	31.778	9.412	7.783	8.889
H. BLK	6.356	2.440	2.152	2.424
H. FP	0.636	0.279	0.457	0.485
H. SYNC	3.813	0.837	0.622	0.754
H. BP	1.907	1.325	1.073	1.185
H. ACTIV	25.422	6.972	5.630	6.465
--VERTICAL--				
V. FREQ (HZ)	59.940 Hz	85.000 Hz	84.977 Hz	75.000 Hz
	lines	lines	lines	lines
V. TOTAL	525	1250	1512	1500
V. BLK	45	50	72	60
V. FP	10	1	1	1
V. SYNC	2	3	3	3
V. BP	33	46	68	56
V. ACTIV	480	1200	1440	1440
--SYNC--				
INT(G)	NO	NO	NO	NO
EXT (H/V) /POLARITY	YES N/N	YES P/P	YES P/P	YES N/P
EXT (CS) /POLARITY	NO	NO	NO	NO
INT/NON INT	NON INT	NON INT	NON INT	NON INT

WARNINGS AND CAUTIONS

CAUTION

Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield, or carbon painted on the CRT, after removing the anode.

WARNING!!

An isolation transformer should be used during any service to avoid possible shock hazard, because of live chassis. The chassis of this receiver is directly connected to the ac power line.

⚠ SAFETY-RELATED COMPONENT WARNING!!

Components identified by shading and ⚠ mark on the schematic diagrams, exploded views, and in the parts list are critical for safe operation. Replace these components with Sony parts whose part numbers appear as shown in this manual or in supplements published by Sony. Circuit adjustments that are critical for safe operation are identified in this manual. Follow these procedures whenever critical components are replaced or improper operation is suspected.

ATTENTION!!

Apres avoir deconnecte le cap de l'anode, court-circuiter l'anode du tube cathodique et celui de l'anode du cap au chassis metallique de l'appareil, ou la couche de carbone peinte sur le tube cathodique ou au blindage du tube cathodique.

Afin d'eviter tout risque d'electrocution provenant d'un châssis sous tension, un transformateur d'isolement doit etre utilisé lors de tout dépannage. Le châssis de ce récepteur est directement raccordé à l'alimentation du secteur.

⚠ ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!

Les composants identifies par une trame et par une marque ⚠ sur les schemas de principe, les vues explosees et les listes de pieces sont d'une importance critique pour la securite du fonctionnement. Ne les remplacer que par des composants Sony dont le numero de piece est indique dans le present manuel ou dans des supplements publies par Sony. Les reglages de circuit dont l'importance est critique pour la securite du fonctionnement sont identifies dans le present manuel. Suivre ces procedures lors de chaque remplacement de composants critiques, ou lorsqu'un mauvais fonctionnement suspecte.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly soldered connections. Check the entire board surface for solder splashes and bridges.

2. Check the interboard wiring to ensure that no wires are "pinched" or touching high-wattage resistors.

3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.

4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.

5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.

6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.

7. Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.

8. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

Leakage Test

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instructions.

2. A battery-operated AC milliampmeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low voltage scale. The Simpson's 250 and Sanwa SH-63TRD are examples of passive VOMs that are suitable. Nearly all battery-operated digital multimeters that have a 2 VAC range are suitable (see Figure A).

How to Find a Good Earth Ground

A cold-water pipe is a guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms.

If a cold-water pipe is not accessible, connect a 60- to 100-watt trouble-light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side on the line; the lamp should light at normal brilliance if the screw is at ground potential (see Figure B).

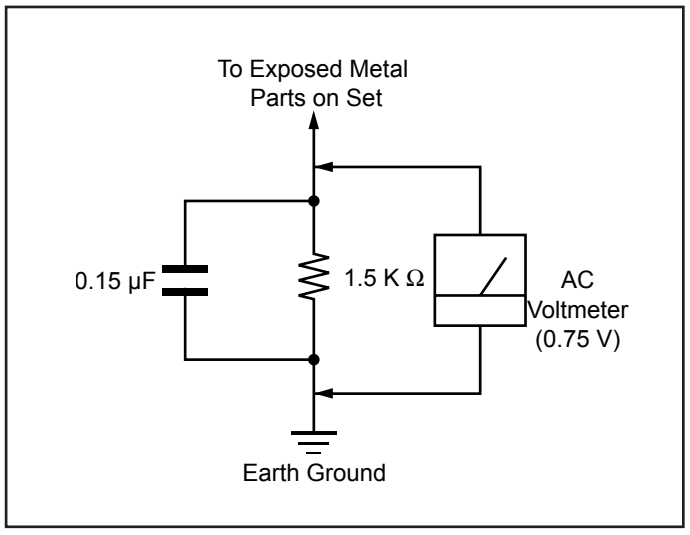


Figure A. Using an AC voltmeter to check AC leakage.

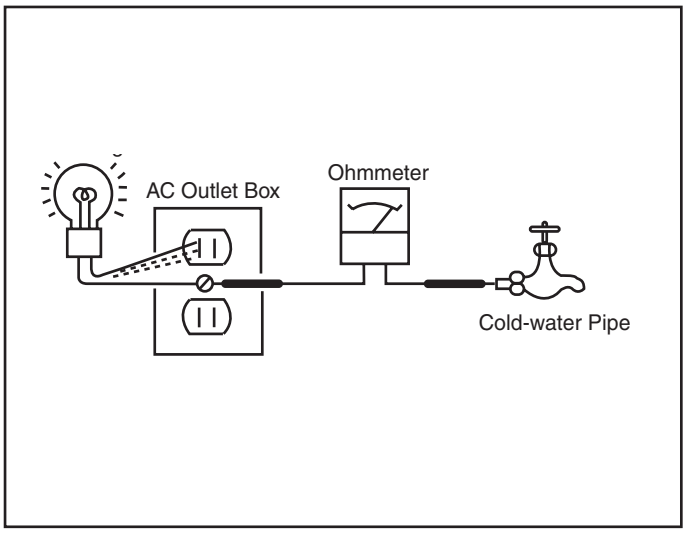
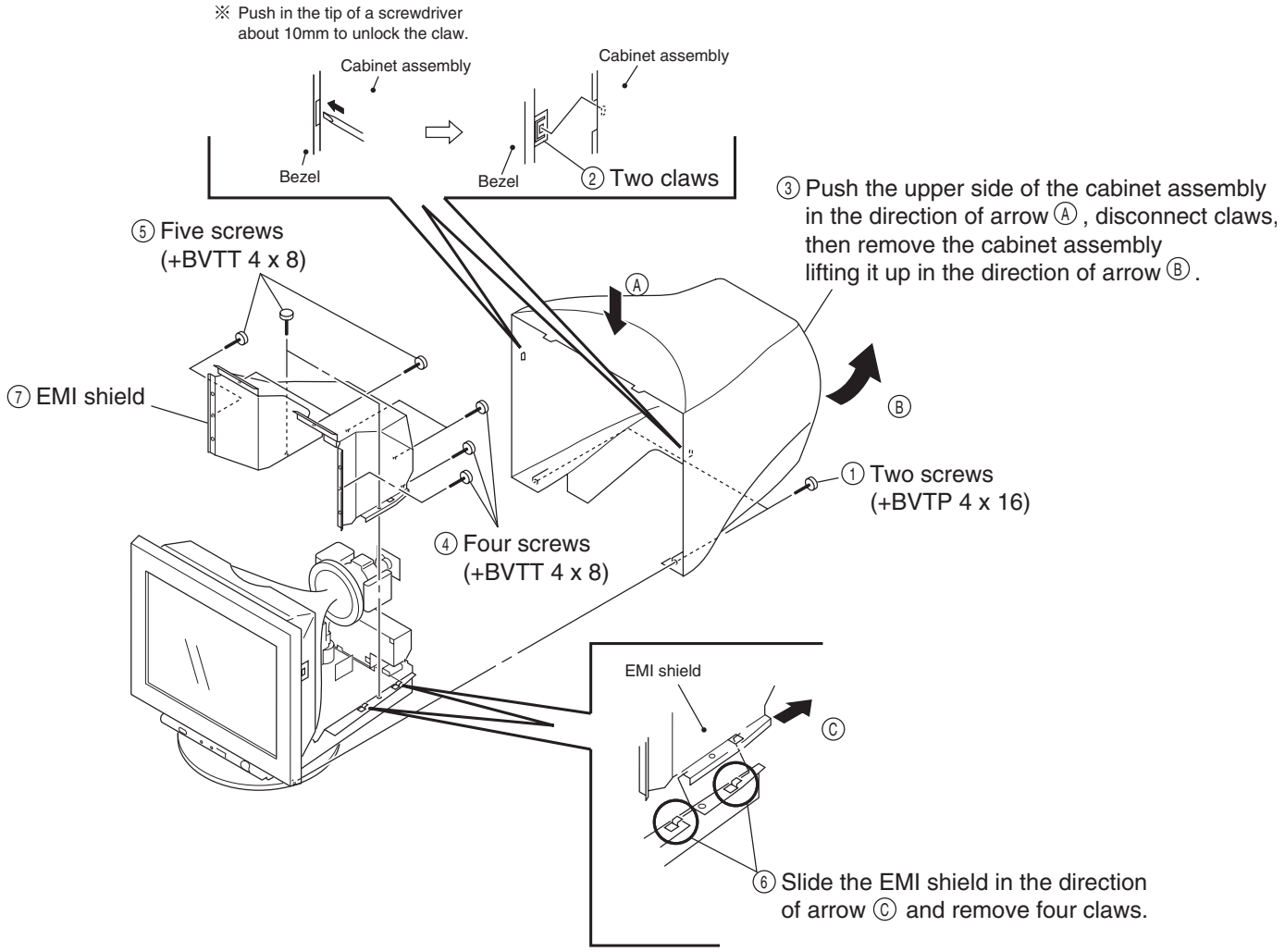


Figure B. Checking for earth ground.

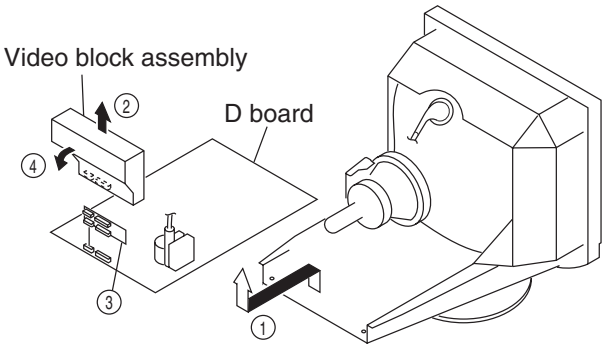
SECTION 1: DISASSEMBLY

1-1. CABINET REMOVAL

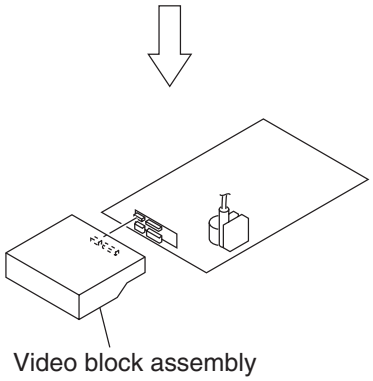

※ Push in the tip of a screwdriver about 10mm to unlock the claw.
Cabinet assembly
Bezel
Cabinet assembly
Bezel
② Two claws
③ Push the upper side of the cabinet assembly in the direction of arrow Ⓐ, disconnect claws, then remove the cabinet assembly lifting it up in the direction of arrow Ⓑ.
⑤ Five screws (+BVTT 4 x 8)
Ⓐ
Ⓑ
⑦ EMI shield
① Two screws (+BVTP 4 x 16)
④ Four screws (+BVTT 4 x 8)
EMI shield
Ⓒ
⑥ Slide the EMI shield in the direction of arrow Ⓒ and remove four claws.

1-2. SERVICE POSITION

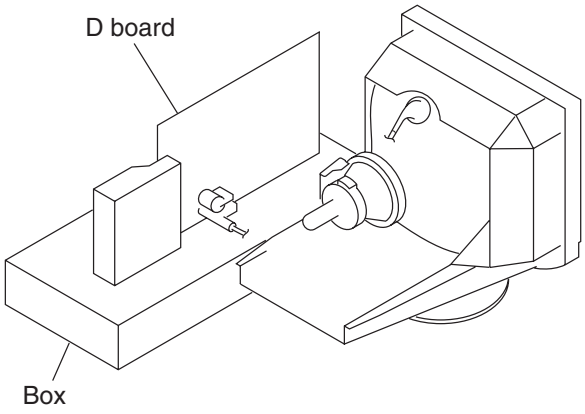
① Remove the D board.
② Remove the Video block assembly.
③ Install the Adaptor board
(XT MOUNT) (A-1391-123-A).
④ Lay the Video block assembly.



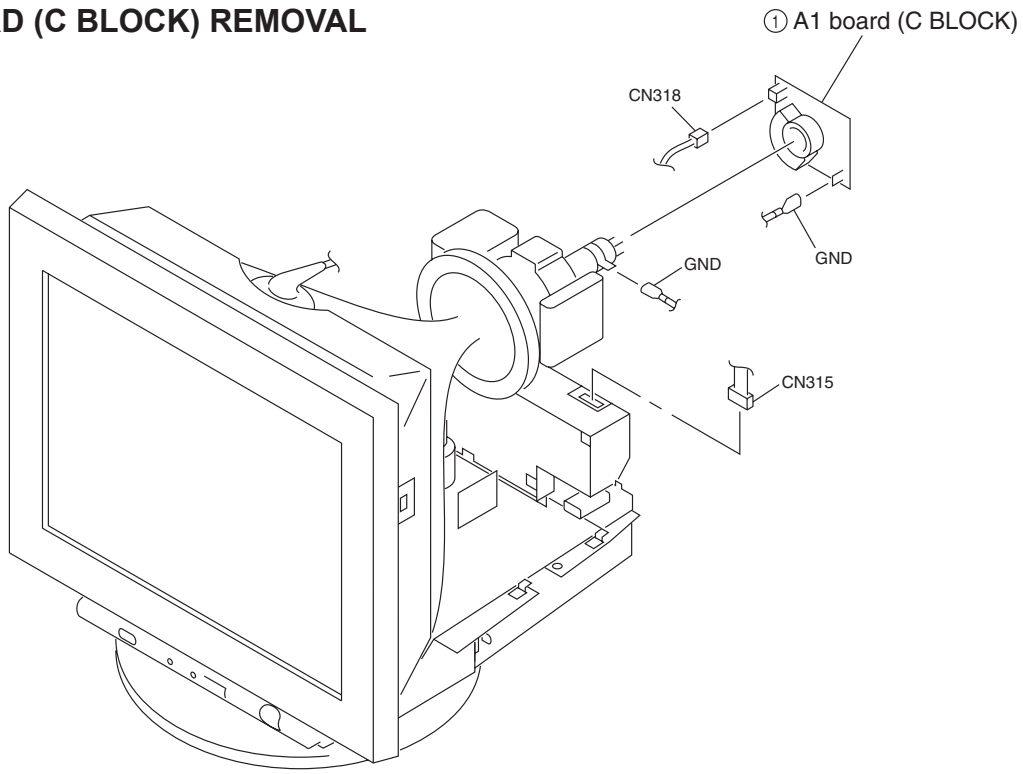
⑤ Install the video block assembly.



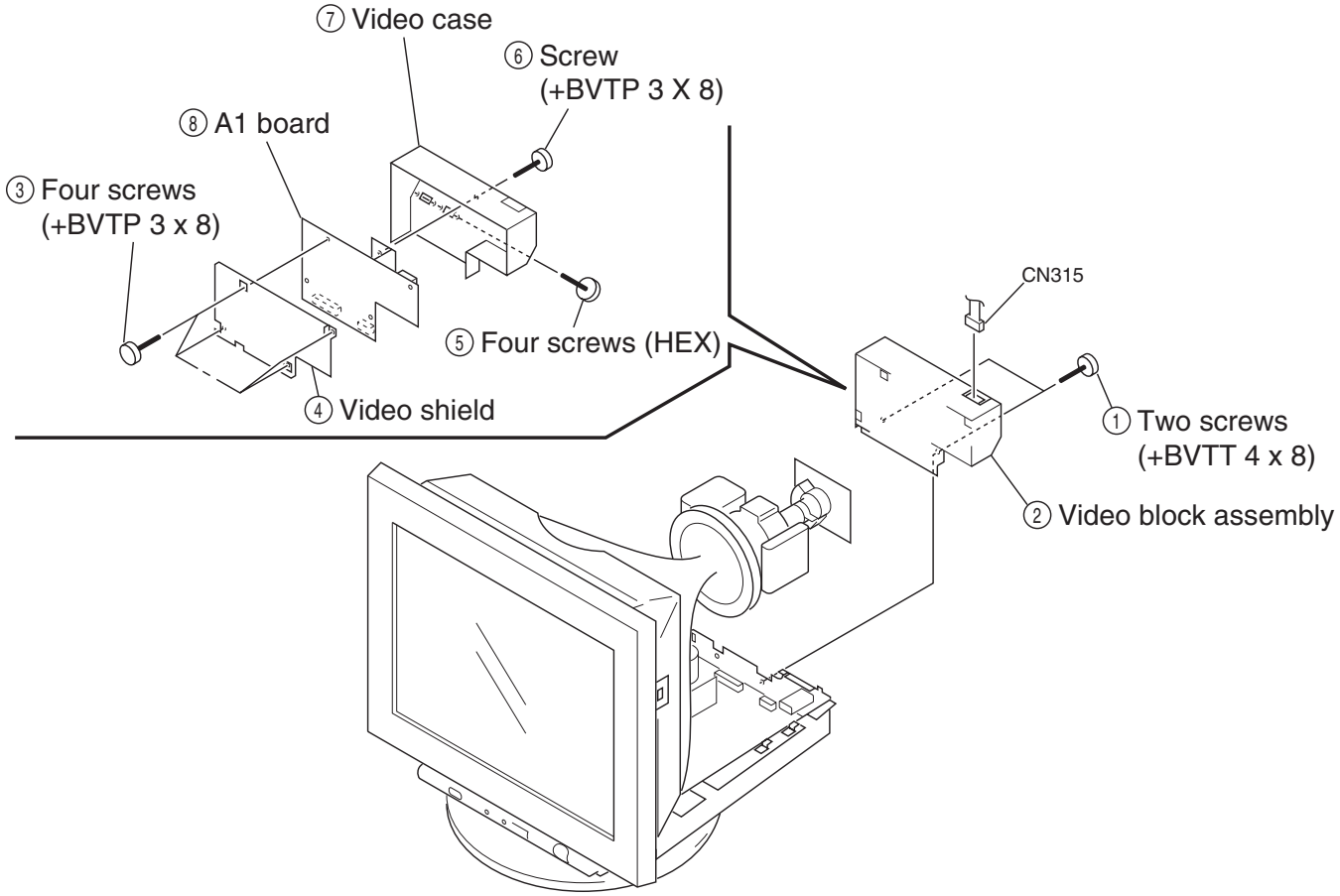
⑥ Put a box which is about 15cm in height
under the D board to fix it.
(Please disconnect the CN 701 first.)



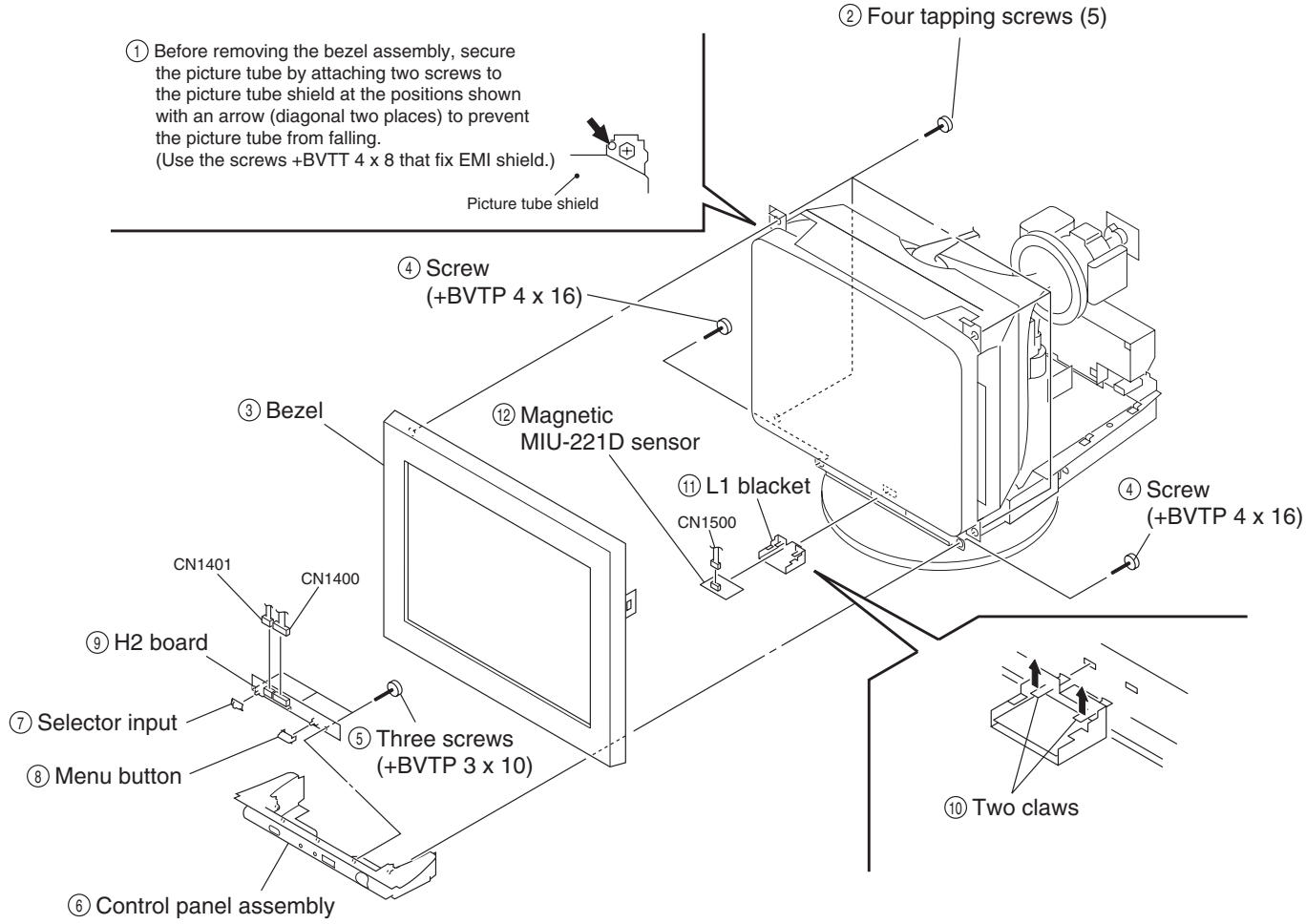
1-3. A1 BOARD (C BLOCK) REMOVAL



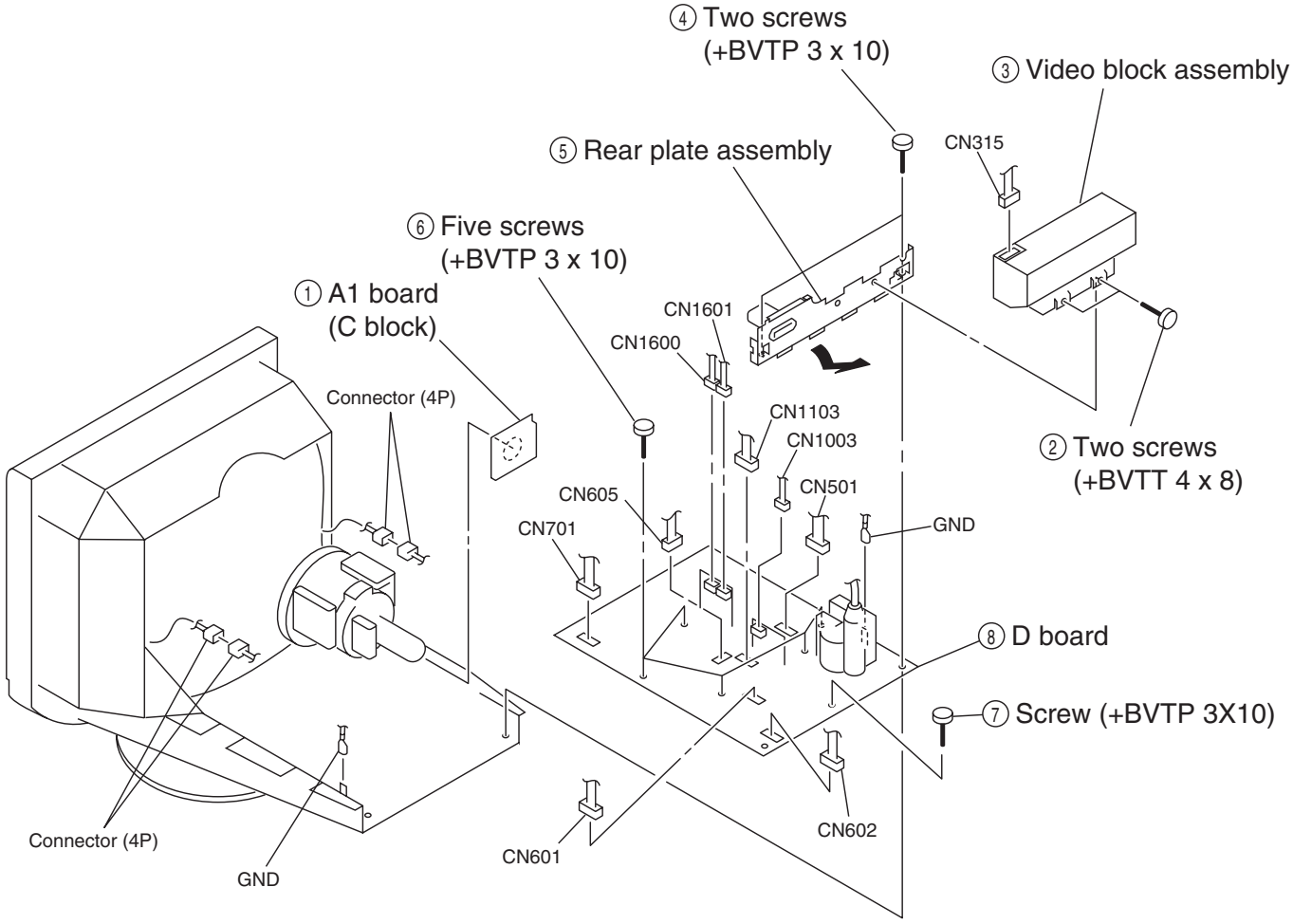
1-4. A1 BOARD REMOVAL



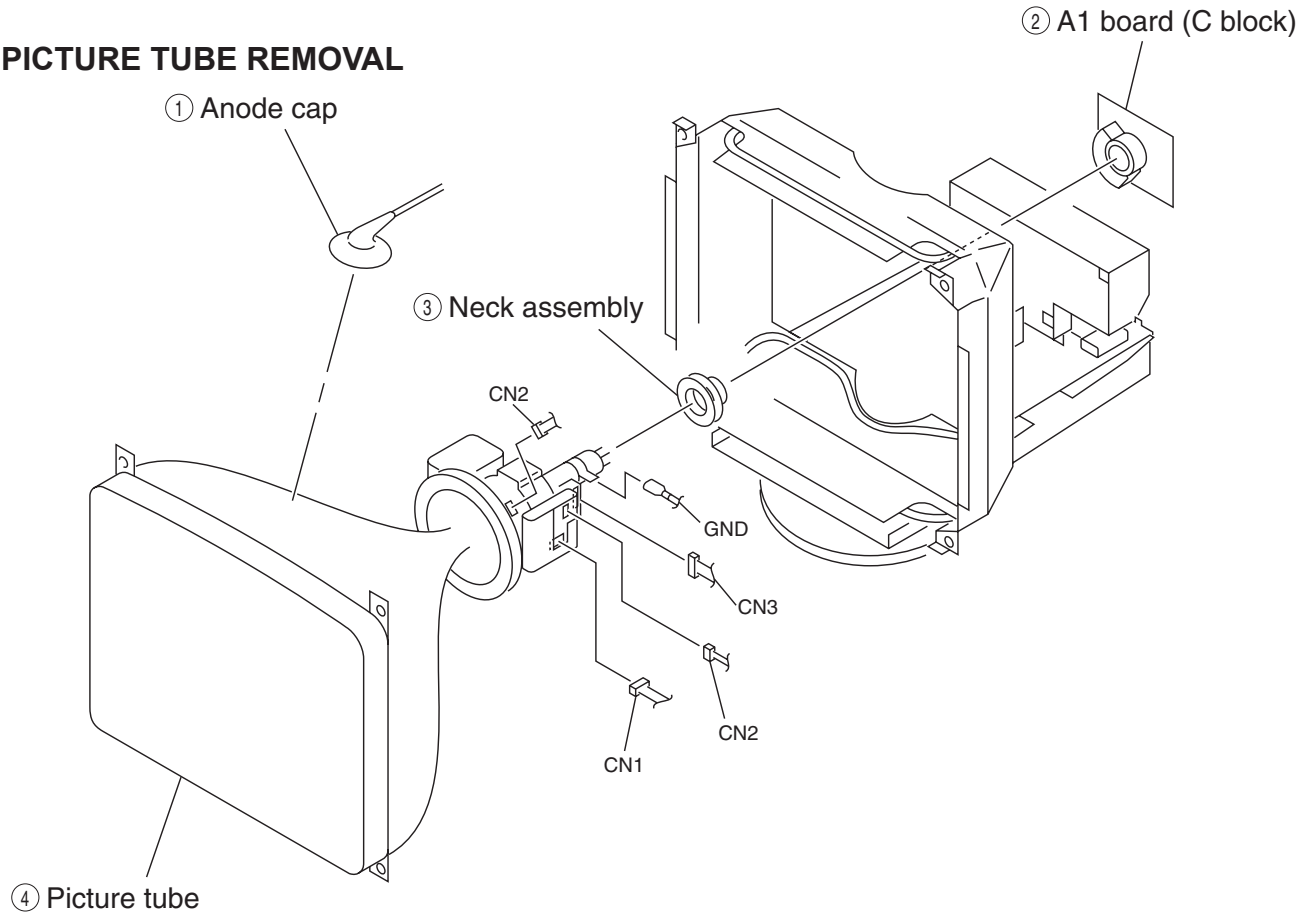
1-5. BEZEL ASSEMBLY AND H2 BOARD REMOVAL


② Four tapping screws (5)
① Before removing the bezel assembly, secure the picture tube by attaching two screws to the picture tube shield at the positions shown with an arrow (diagonal two places) to prevent the picture tube from falling.
(Use the screws +BVTT 4 x 8 that fix EMI shield.)
Picture tube shield
④ Screw (+BVTP 4 x 16)
③ Bezel
⑫ Magnetic MIU-221D sensor
⑪ L1 blacket
CN1500
④ Screw (+BVTP 4 x 16)
CN1401
CN1400
⑨ H2 board
⑦ Selector input
⑤ Three screws (+BVTP 3 x 10)
⑧ Menu button
⑩ Two claws
⑥ Control panel assembly

1-6. D BOARD REMOVAL



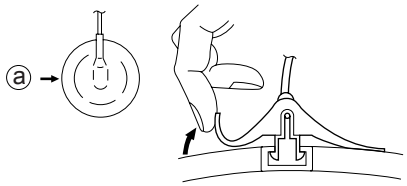
1-7. PICTURE TUBE REMOVAL



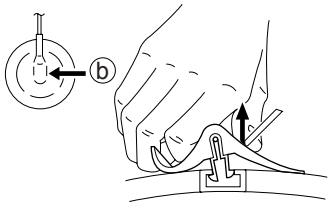
ANODE CAP REMOVAL

WARNING: High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT **before** attempting to remove the anode cap. Short between anode and coated earth ground strap of CRT.
NOTE: After removing the anode cap, short circuit the anode of the picture tube and the anode cap to either the metal chassis, CRT shield, or carbon painted on the CRT.

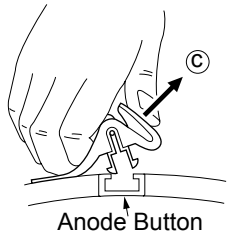
REMOVAL PROCEDURES



Turn up one side of the rubber cap in the direction indicated by arrow ⓐ.



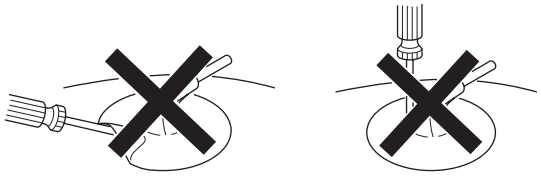
Use your thumb to pull the rubber cap firmly in the direction indicated by arrow ⓑ.



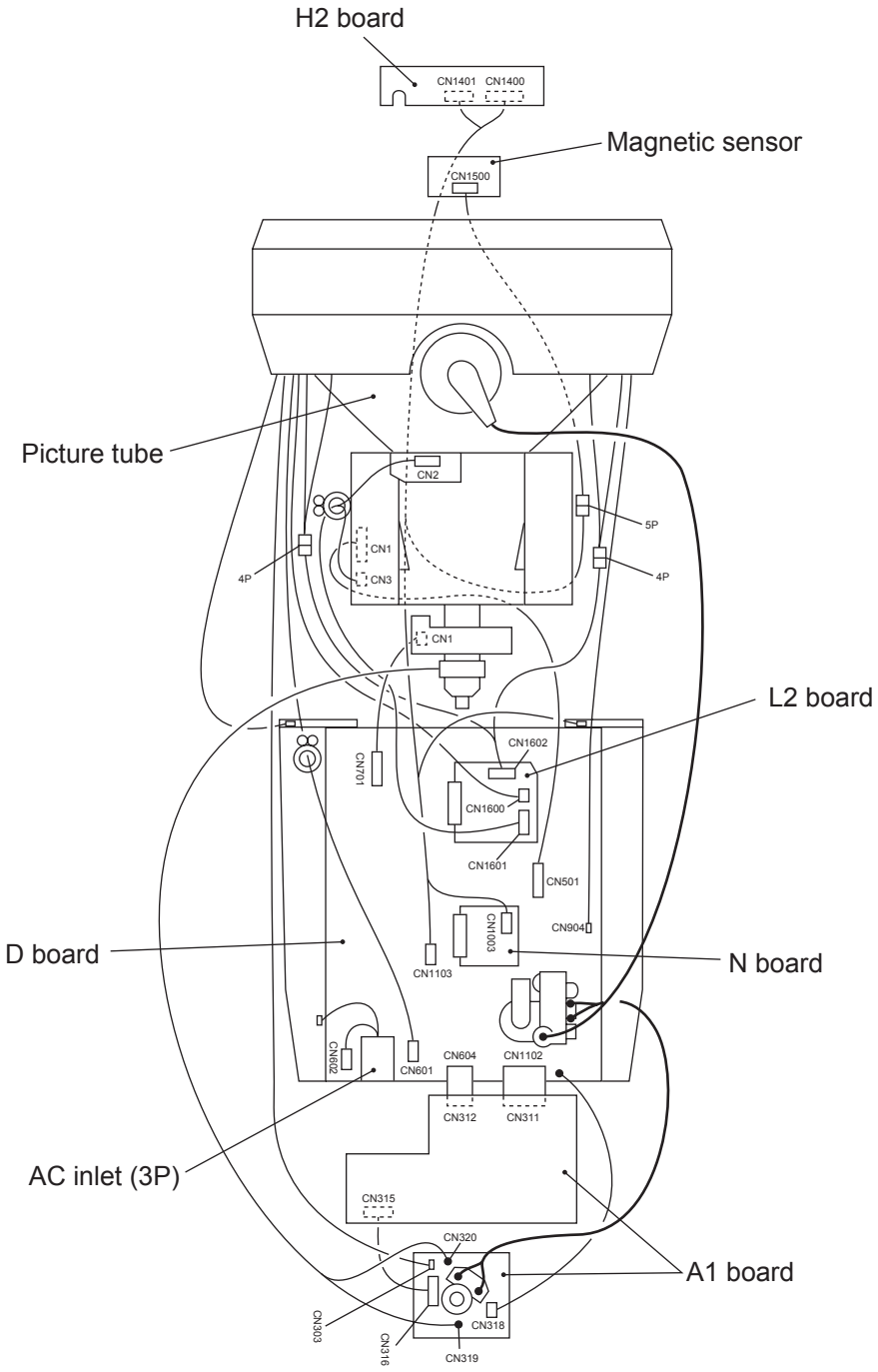
When one side of the rubber cap separates from the anode button, the anode cap can be removed by turning the rubber cap and pulling it in the direction of arrow ⓒ.

HOW TO HANDLE AN ANODE CAP

1. Do not use sharp objects which may cause damage to the surface of the anode cap.
2. To avoid damaging the anode cap, do not squeeze the rubber covering too hard. A material fitting called a shatter-hook terminal is built into the rubber.
3. Do not force turn the foot of the rubber cover. This may cause the shatter-hook terminal to protrude and damage the rubber.



1-8. HARNESS LOCATION



SECTION 2: SAFETY RELATED ADJUSTMENTS

When replacing parts shown in the table below, the following operational checks must be performed as a safety precaution against X-ray emissions from the unit.

	Part Replaced (⧓)
HV ADJ	RV901

	Part Replaced (◪)
HV Regulator Circuit Check	D Board C925, IC901, R901, R902, R905, R924, R925, R926, RV901, T901 (FBT), • Mounted D Board
HV HOLD DOWN Circuit Check	D Board C920, C923, D911, D912, R903, R917, R918, R919, R920, R923, T901 (FBT) • Mounted D Board N Board IC1001, RB1001 • Mounted N Board
Beam Current Protector Circuit Check	D Board C930, D917, R921, R932, R933, R935, T901 (FBT) • Mounted D Board N Board IC1001, RB1001 • Mounted N Board

※ Confirm one minute after turning on the power.

2-1. HV REGULATOR CIRCUIT CHECK

1. Turn the RV901 slowly, and adjust so that high voltage is in the specified range.
   [Specification]: 27.00 ± 0.05 kV
2. Check that the voltage of D912 cathode on the D board is 17.0V or more.

2-2. HV PROTECTOR CIRCUIT CHECK

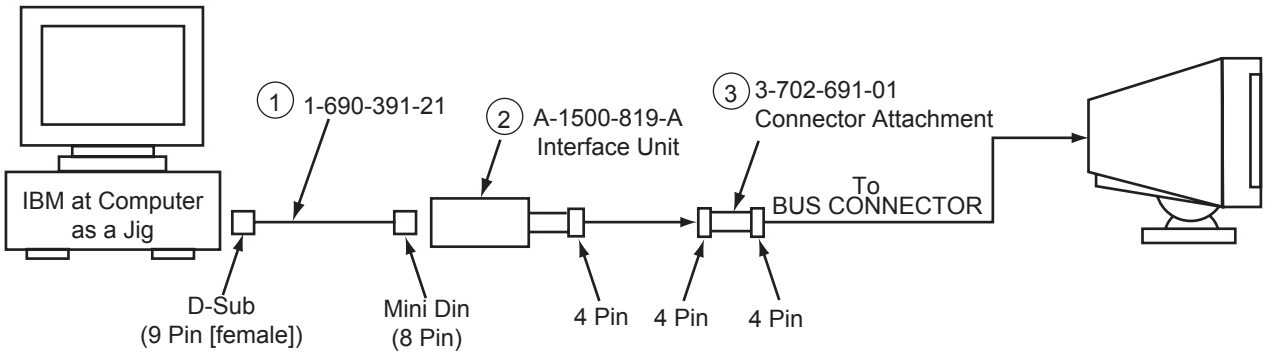
1. Using external DC Power Supply, apply the voltage shown below between cathode of D912 and GND, and check that the RASTER disappears.
   [Specification]: 19.95 ± 0.00/-0.05V

2-3. BEAM CURRENT PROTECTOR CIRCUIT CHECK

1. Connect constant current source to a section between T901 (FBT) (11) pin and GND, and check that the RASTER disappears when the specified current flows to the (11) pin.
   [Specification]: 2.12 ± 0.00/-0.051 mA

SECTION 3: ADJUSTMENTS

Connect the communication cable of the connector located on the D Board on the monitor. Run the service software and then follow the instructions.



* The Parts above (①~③) are necessary for DAS Adjustment.

※ Allow a 30 minute warm-up period prior to making the following adjustments.

3-1. LANDING ROUGH ADJUSTMENT

1. Display the all white pattern.
2. Set contrast to 255.
3. Display plain green pattern.
4. Slide the DY back and roughly adjust the plain green pattern with the purity magnet so that it is centered on the screen.
5. Adjust the DY tilt.
   NOTE: Set ROTATION to 128 and LCC_NS to 128 when adjusting the DY tilt.
6. Lightly tighten the DY screw.

3-2. LANDING FINE ADJUSTMENT

NOTE: (1) After adjusting W/B (9300k), measure the average of ΣIK with all white video input, while CONTRAST is maximum and BRIGHTNESS is centered. Make the adjustments so that the miss-landing becomes least after aging 2H with the IK 30% of measured value shown above.
(2) The magnetic field shall be BH = 0.
(3) When adjusting at other than BH = 0, calculate the shifted value from BH = 0.

1. Place the monitor in the Helmholtz coil.
2. Set as follows;
   LCC-SW = 0 (LCC Correction Current = 0)
   FUNCTION_SW bit1 = (Auto Degauss = On)
   CONTRAST = 255
3. Display plain green pattern.
4. Degauss the iron part of the chassis with a hand-degausser and degauss coil.
5. Degauss the CRT face with degauss equipment or hand-degausser.
6. Input AC 230V to AC IN and turn the monitor off and on to activate the auto degausser.
7. Reset FUNCTION_SW bit 1 to 0 (auto-degauss = off)
8 Repeat step 5 by degaussing the CRT face with degauss equipment or hand-degausser.
9. Attach a wobbling coil to the specified position of CRT neck.
10. Put on landing sensor to CRT face.
11. Set LCC_SW to 12.
12. With landing checker, adjust DY position, purity, DY center and the landing of the 4 corners.
13. Read VX and VY values which are read out of the magnetic sensor, and write to LCC_VX_REF and LCC_VY_REF.
14. Adjust landing by LCC_NS, LSS_LT, LCC_LB, LCC_RT, and LCC_RB. Adjustment of registers shall be limited within the following range:
    LCC_NS: 128 ± 15
    LCC_LT, LCC_LB, LCC_RT, and LCC_RB: 128 ± 40
    Set LCC_SW to 13, and Perform Service Save.

<Specifications>
Adjust so that the green is within the specification given right.
4 corner adjust target : within ± 1

(μm)

0 ± 3	0 ± 7.5	0 ± 3
0 ± 3	0 ± 7.5	0 ± 3
0 ± 3	0 ± 7.5	0 ± 3

The red and blue must be within the specification given right with respect to the green.

(μm)

± 6	± 6	± 6
± 6	± 6	± 6
± 6	± 6	± 6

A difference between red and blue must be within the specification given right.

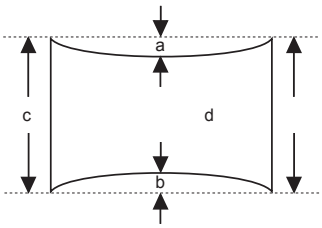
(μm)

10	10	10
10	7	10
10	10	10

15. Tighten DY screw within specified torque, and auto-degauss.
    NOTE: Torque 22 ± 2 kgcm (2.2 ± 0.2 Nm)

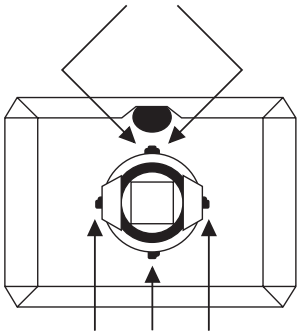
16. Adjust the vertical angle of the DY to make the top and bottom pins equal (a = b). The horizontal angle is not changed (straight). Settle DY upright without leaning, and insert wedges firmly so that the DY does not move.

<How to place wedge>
Green plain crosshatch pattern



a and b should be equal.
c and d should be equal.

Plaster RTV to both sides for the upper wedge.
Make sure that they settle inside DY.



Plaster RTV to one side for other wedges.

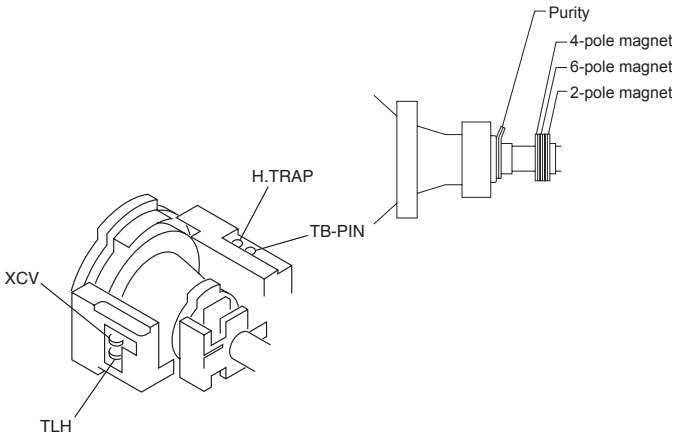
17. Adjust the top and bottom pins correction VR.
18. Adjust the horizontal trapezoid distortion by DY horizontal trapezoid correction VR.
19. Check the landing at each corner. If the landing is not set to specification, adjust the landing of the 4 corners with LCC_NS, LSS_LT, LCC_LB, LCC_RT, and LCC_RB. The limitations of registers are shown below:

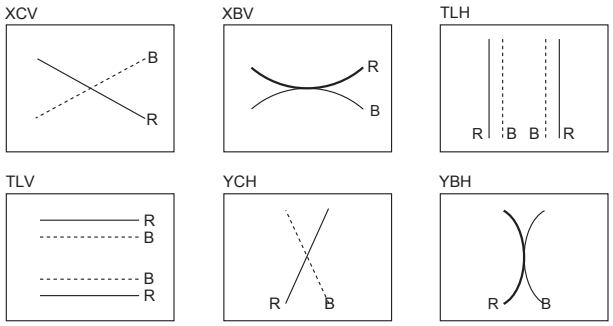
    LCC_NS: 128 ± 15

    LCC_LT, LCC_LB, LCC_RT, and LCC_RB: 128 ± 40
20. Remove the sensor and wobbling coil.
21. Switch signals to R, G, B, and then check that the pure colors have good color purity.
22. Fix purity magnets with white paint.

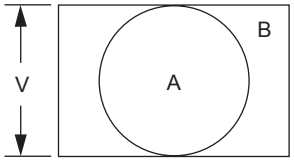
3-3. CONVERGENCE ROUGH ADJUSTMENT

1. Display the white crosshatch pattern.
2. Pile the convex parts of the 6-pole magnet for convergence together.
3. Roughly adjust H.CONV and V.CONV with the 4-pole magnet.





Convergence Specification

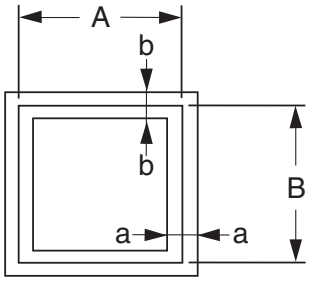


A	0.20 mm
B	0.24 mm

3-4. WHITE BALANCE ADJUSTMENT SPECIFICATION

1. 9300 K
   x = 0.283 ± 0.005
   y = 0.298 ± 0.005
   (All White)
2. 6500 K
   x = 0.313 ± 0.005
   y = 0.329 ± 0.005
   (All White)
3. 5000 K
   x = 0.346 ± 0.005
   y = 0.359 ± 0.005
   (All White)

3-5. VERTICAL AND HORIZONTAL POSITION AND SIZE SPECIFICATION

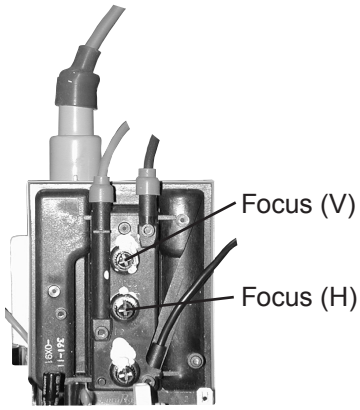


MODE	4 : 3
A	388
B	291

a ≦ 1.8 mm
b ≦ 1.8 mm

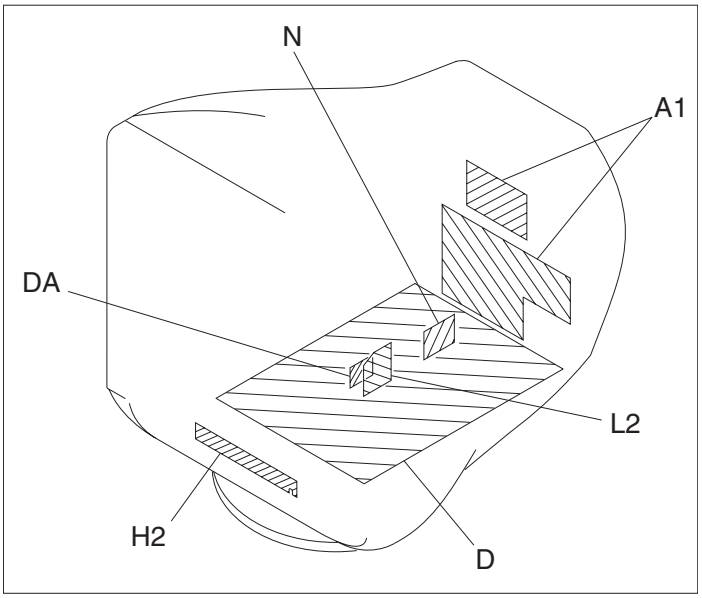
3-6. FOCUS ADJUSTMENT

1. Adjust Focus (V) and Focus (H) for optimum focus.



SECTION 4: DIAGRAMS

4-1. CIRCUIT BOARDS LOCATION



4-2. PRINTED WIRING BOARD AND SCHEMATIC DIAGRAM INFORMATION

All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.

All electrolytics are in 50V unless otherwise specified.

All resistors are in ohms. kΩ=1000Ω, MΩ=1000kΩ

Indication of resistance, which does not have one for rating electrical power, is as follows: Pitch : 5mm
Rating electrical power : $^1/_4$ W

$^1/_4$ W in resistance, $^1/_{10}$ W and $^1/_8$ W in chip resistance.

: nonflammable resistor.

: fusible resistor.

△ : internal component.

: panel designation and adjustment for repair.

⊥ : earth ground

⏚ : earth-chassis

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

Readings are taken with a color-bar signal input.

Readings are taken with a 10MΩ digital multimeter.

Voltages are DC with respect to ground unless otherwise noted.

Voltage variations may be noted due to normal production tolerances.

All voltages are in V.

S : Measurement impossibillity.

: B+line.

: B-line (Actual measured value may be different).

: signal path (RF).

Circled numbers are waveform references.

The components identified by shading and ⚠ symbol are critical for safety. Replace only with part number specified.

The symbol indicates a fast operating fuse and is displayed on the component side of the board. Replace only with fuse of the same rating as marked.

Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

Le symbole indique une fusible a action rapide. Doit etre remplace par une fusible de meme yaleur, comme maque.

The components identified by ⧓ in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be necessary, replace only with the value originally used.

When replacing components identified by ◪, make the necessary adjustments as indicated. If the results do not meet the specified value, change the component identified by ⧓ and repeat the adjustment until the specified value is achieved.

(Refer to Section 2: Safety Releated Adjustments.)

When replacing the parts listed in the table below, it is important to perform the related adjustments.

	Part Replaced (⧓)
HV ADJ	RV901

	Part Replaced (◪)
HV Regulator Circuit Check	D Board C925, IC901, R901, R902, R905, R924, R925, R926, RV901, T901 (FBT), • Mounted D Board
HV HOLD DOWN Circuit Check	D Board C920, C923, D911, D912, R903, R917, R918, R919, R920, R923, T901 (FBT) • Mounted D Board N Board IC1001, RB1001 • Mounted N Board
Beam Current Protector Circuit Check	D Board C930, D917, R921, R932, R933, R935, T901 (FBT) • Mounted D Board N Board IC1001, RB1001 • Mounted N Board

REFERENCE INFORMATION

RESISTOR

: RN	METAL FILM
: RC	SOLID
: FPRD	NONFLAMMABLE CARBON
: FUSE	NONFLAMMABLE FUSIBLE
: RW	NONFLAMMABLE WIREWOUND
: RS	NONFLAMMABLE METAL OXIDE
: RB	NONFLAMMABLE CEMENT
: ※	ADJUSTMENT RESISTOR

COIL

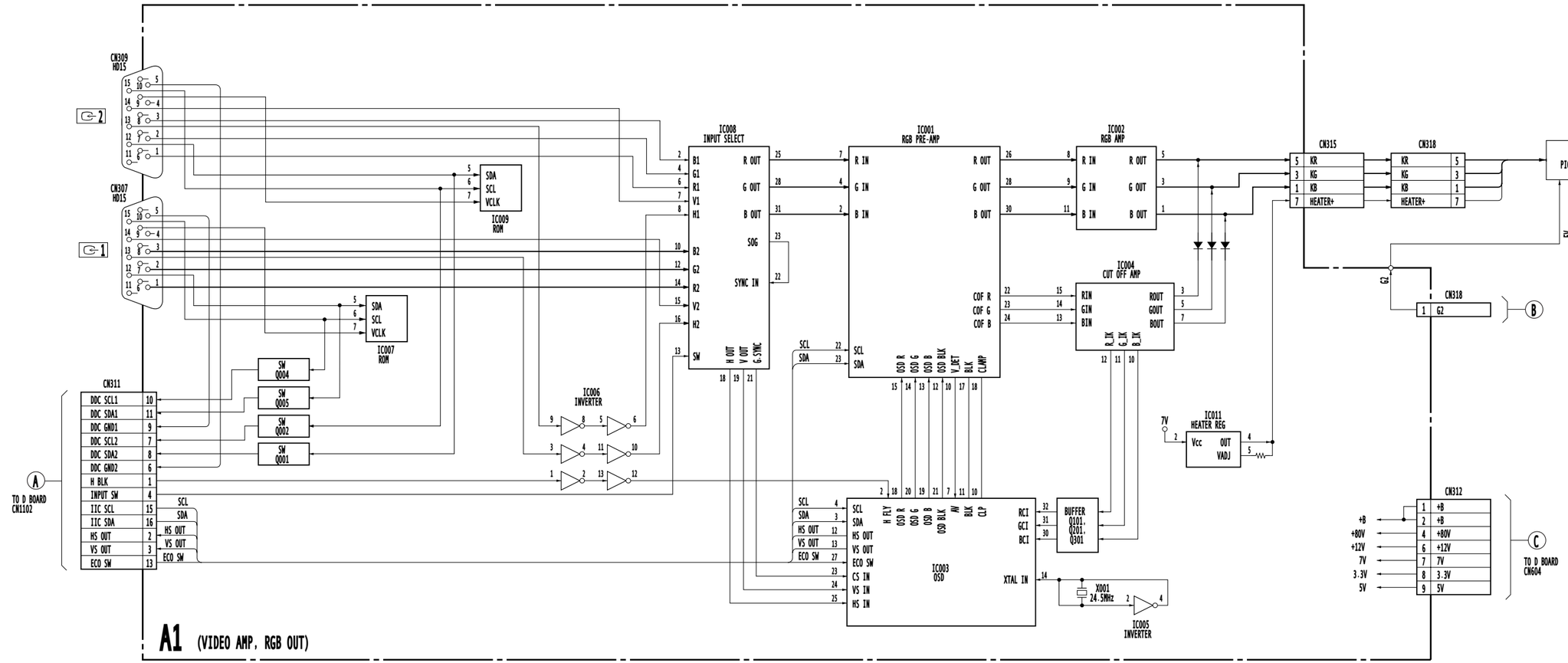
: LF-8L	MICRO INDUCTOR

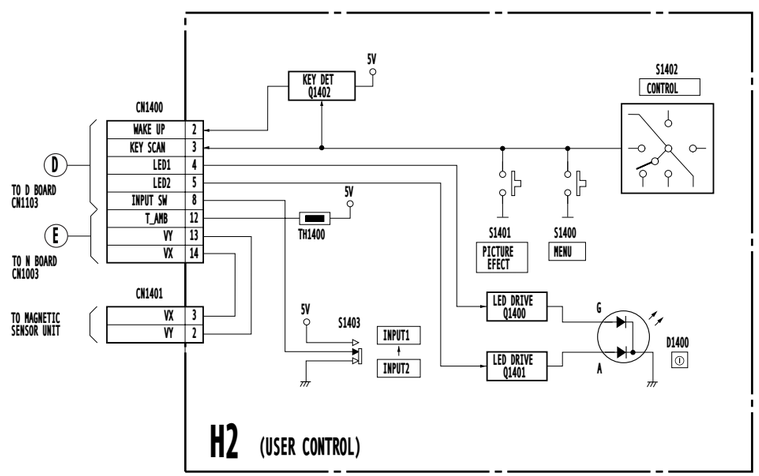
CAPACITOR

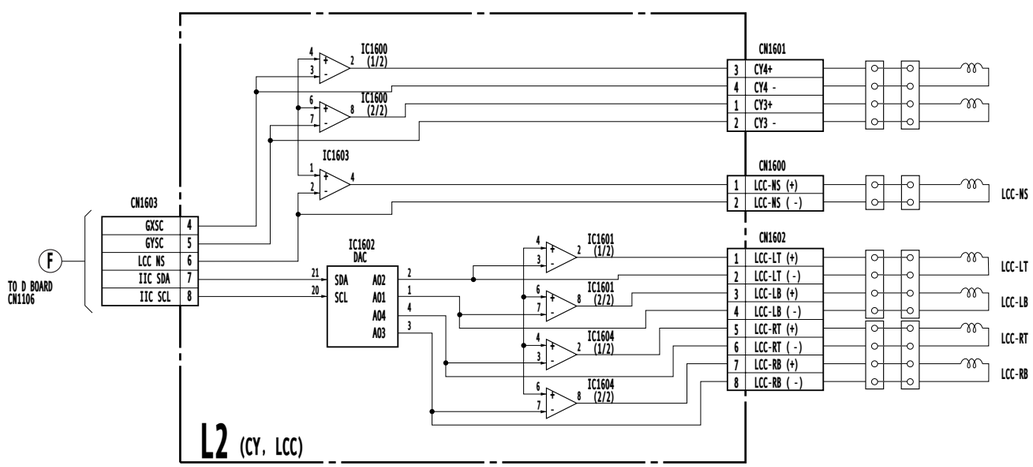
: TA	TANTALUM
: PS	STYROL
: PP	POLYPROPYLENE
: PT	MYLAR
: MPS	METALIZED POLYESTER
: MPP	METALIZED POLYPROPYLENE
: ALB	BIPOLAR
: ALT	HIGH TEMPERATURE
: ALR	HIGH RIPPLE

4-3. BLOCK DIAGRAMS

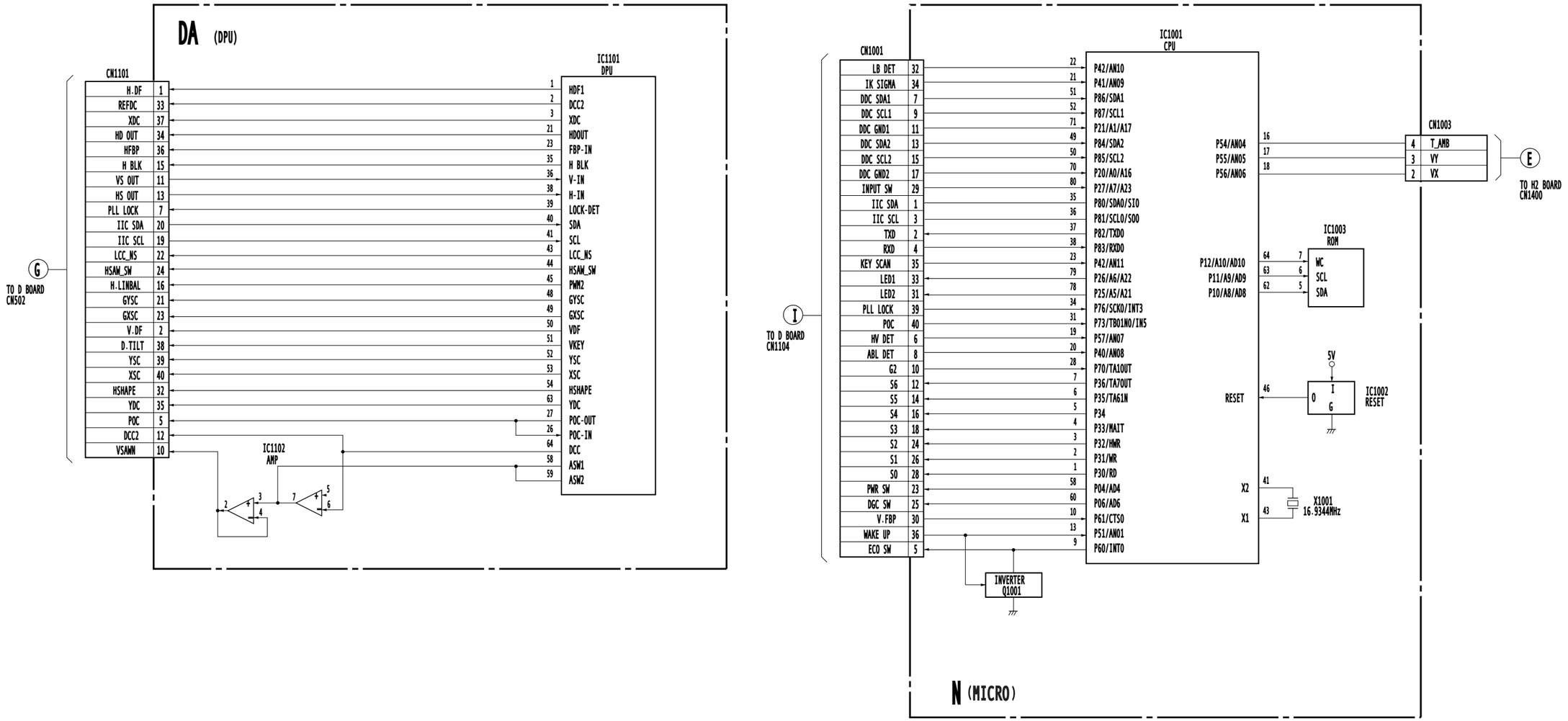
A1 BLOCK DIAGRAM, H2 BLOCK DIAGRAM, AND L2 BLOCK DIAGRAM



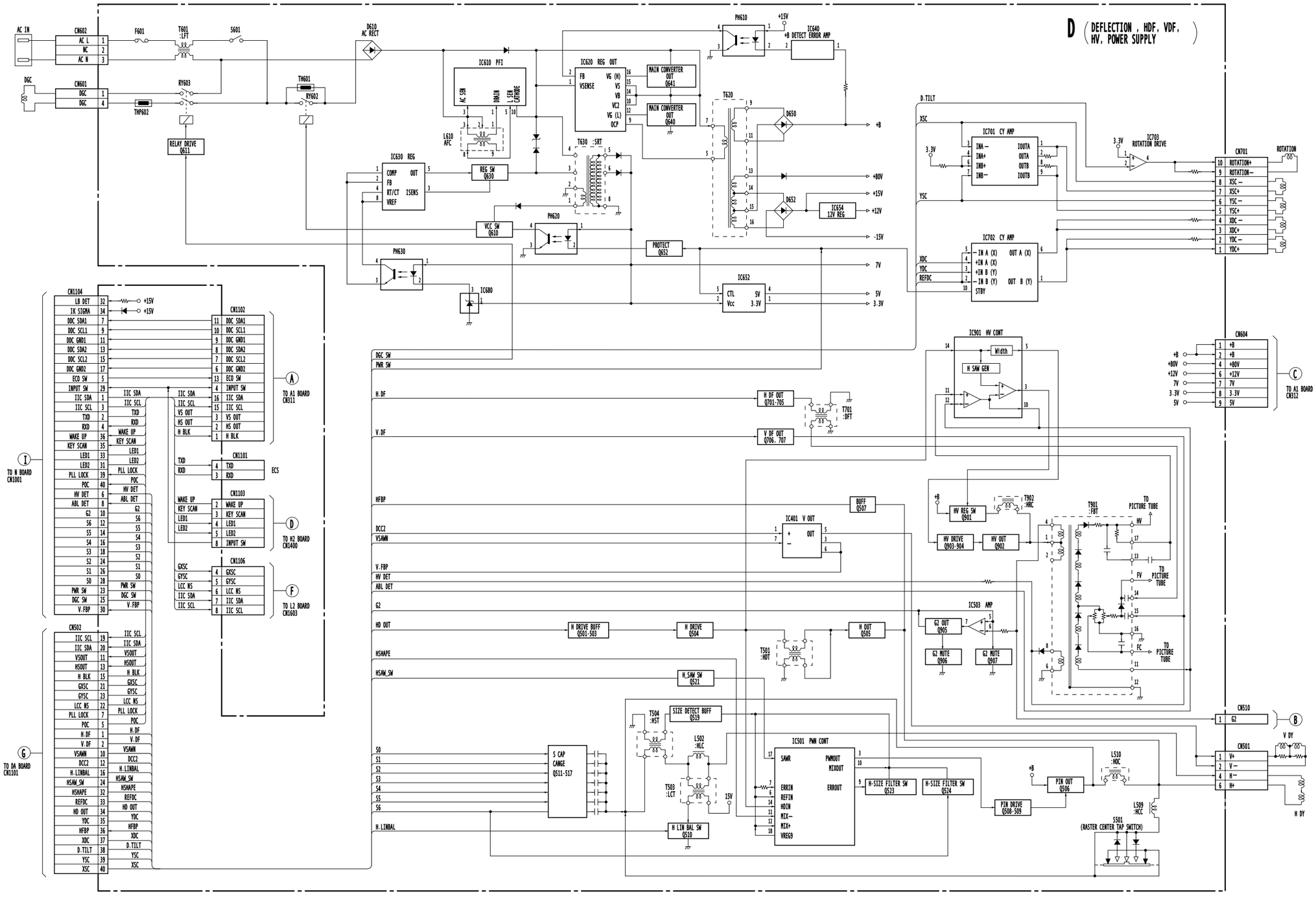




DA BLOCK DIAGRAM AND N BLOCK DIAGRAM

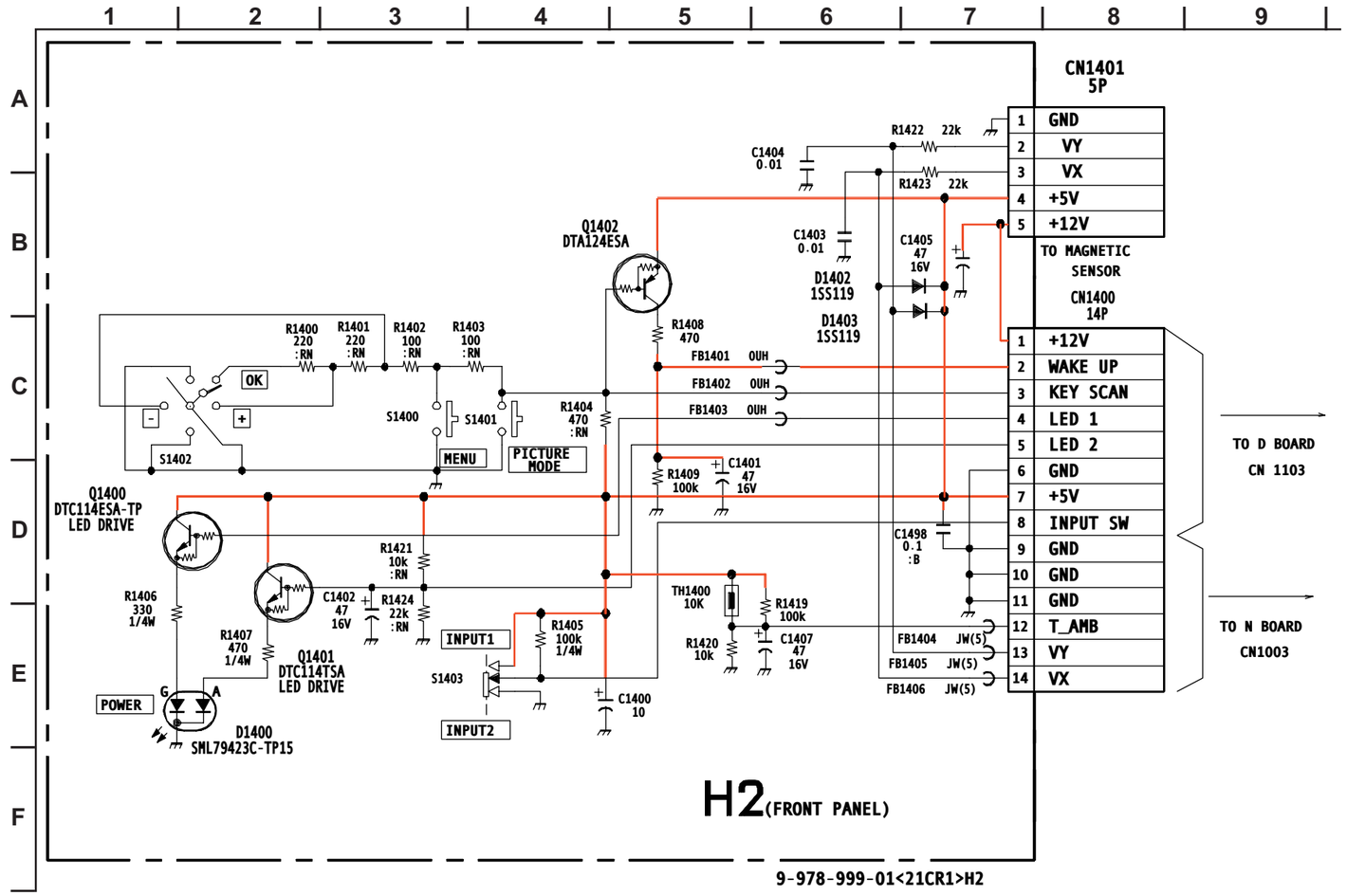


D BLOCK DIAGRAM



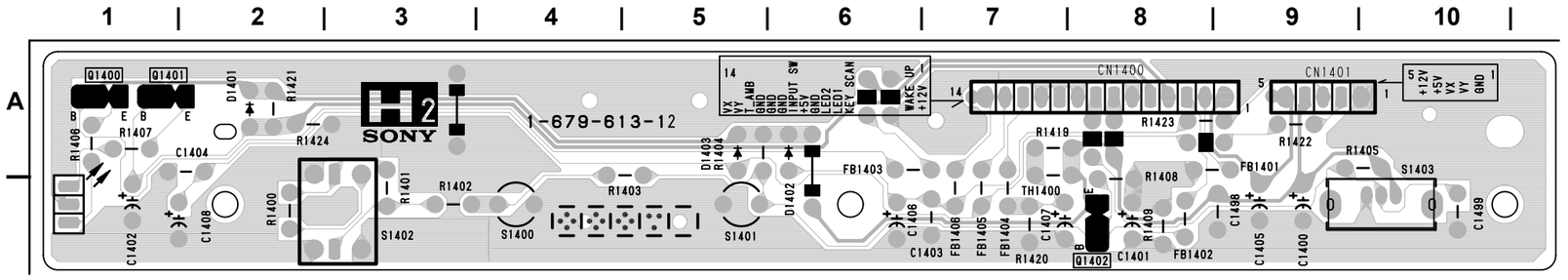
4-4. SCHEMATICS AND SUPPORTING INFORMATION

H2 BOARD SCHEMATIC DIAGRAM

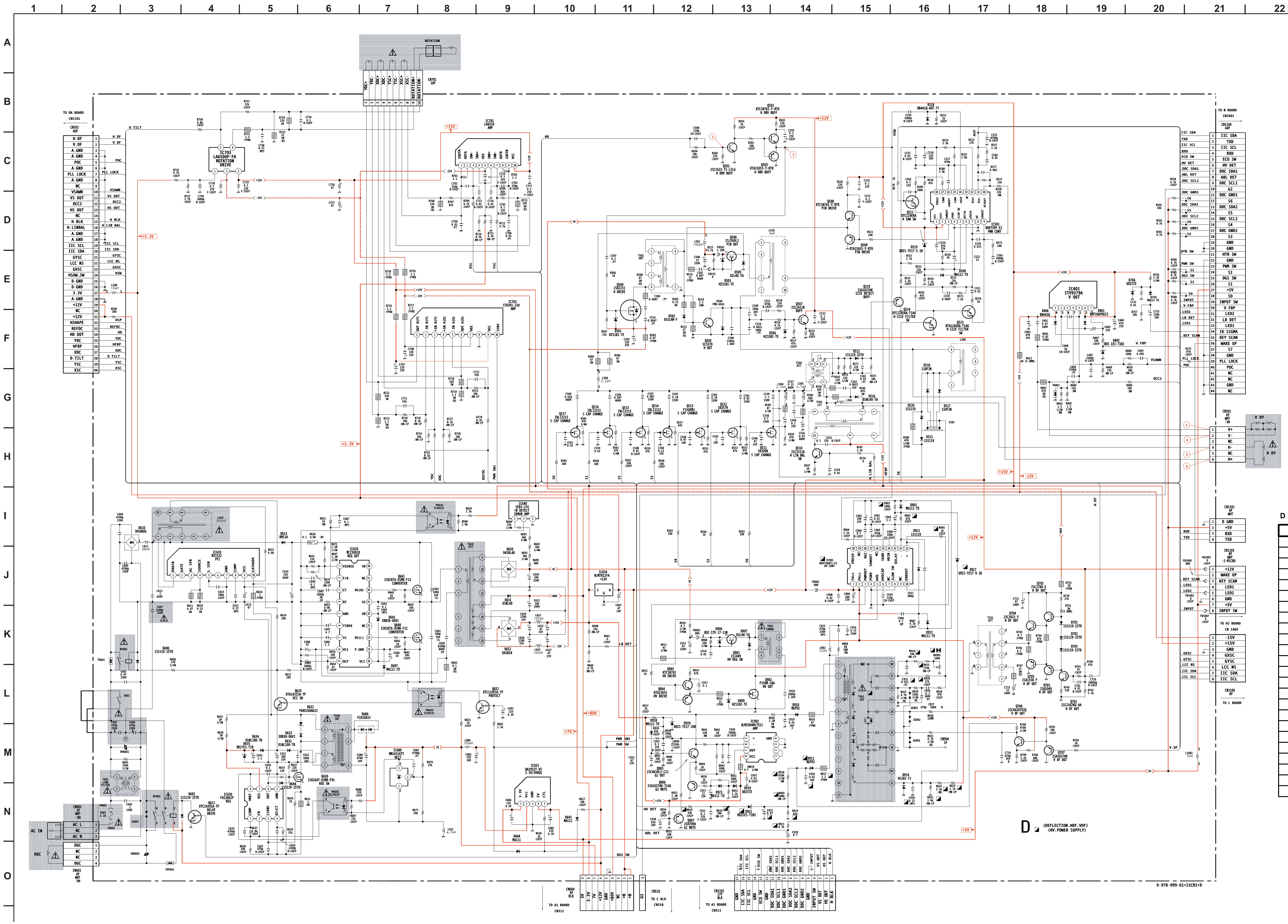


H2 [Front Panel]

CONDUCTOR SIDE



D BOARD SCHEMATIC DIAGRAM



D BOARD IC VOLTAGE LIST

IC401

pin	volt
1	0.7
2	15.0
3	-13.4
4	-15.0
5	0.6
6	14.3
7	0.7

IC501

pin	volt
1	15
2	15
3	10.1
4	GND
5	8
6	4.7
7	4.7
8	GND
9	3
10	3.8
11	3.2
12	3.2
13	GND
14	0.5
15	GND
16	3.7
17	2.6
18	9

IC610

pin	volt
1	90.7
2	NC
3	90.4
4	0
5	2.2
6	NC
7	GND
8	2.2
9	14.6
10	378

IC620

pin	volt
1	1.5
2	2.0
3	2.1
4	2.3
5	GND
6	-0.1
7	4.4
8	15.1
9	0.0
10	10.2
11	GND
12	4.4
13	NC
14	200.0
15	190.3
16	194.7
17	NC
18	NC

IC630

pin	volt
1	0.0
2	0.0
3	-0.1
4	20.0
5	GND
6	1.4
7	16.1
8	4.8

IC640

pin	volt
1	7.1
2	12.8
3	GND

IC652

pin	volt
1	3.3
2	7.0
3	GND
4	5.0
5	6.7

IC654

pin	volt
I	15.0
G	GND
O	12.0

IC680

pin	volt
1	2.0
2	GND
3	4.9

IC701

pin	volt
1	1.5
2	1.5
3	1.5
4	1.5
5	-15.0
6	1.5
7	1.5
8	0.2
9	0.2
10	15.0

IC702

pin	volt
1	0.0
2	0.8
3	0.8
4	0.8
5	0.8
6	-0.1
7	-15.0
8	GND
9	15.0
10	4.8

IC703

pin	volt
1	1.2
2	1.2
3	-15.0
4	0.2
5	15.0

IC901

pin	volt
1	12.0
2	12.0
3	8.7
4	GND
5	8.6
6	8.6
7	NC
8	GND
9	NC
10	3.8
11	0.0
12	8.9
13	0.0
14	5.4
15	GND
16	NC
17	2.5
18	2.6
19	NC
20	9.1

IC902

pin	volt
1	-0.1
2	-0.1
3	GND
4	GND
5	3.8
6	3.8
7	8.6
8	15.0

All voltages are in V

D BOARD TRANSISTOR LIST

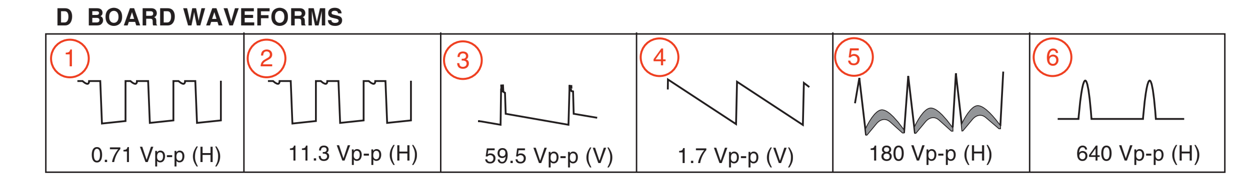
	B	C	E
Q501	0.3	6.1	GND
Q502	6.1	12	6.1
Q503	6.1	GND	6.1
Q505	-1.3	66.7	GND
Q507	-0.7	12	0.2
Q508	10.1	15	9.8
Q509	10.1	GND	9.8
Q510	0.9	12.8	0.4
Q519	1.2	9	GND
Q521	0.2	5.6	GND
Q524	0.2	5.6	GND
Q610	1.8	16.6	16.6
Q611	0	12.1	GND
Q652	4.1	0	GND
Q701	1.2	32.1	0
Q702	33.8	80	33.4
Q703	32.1	GND	32.9
Q704	33.4	80	33.3
Q705	32.9	GND	33.1
Q706	1.8	107.8	1.3
Q707	1.2	GND	1.8
Q905	9.4	72.5	8.8
Q906	3.6	GND	8.8
Q907	3.7	GND	0.7

All voltages are in V

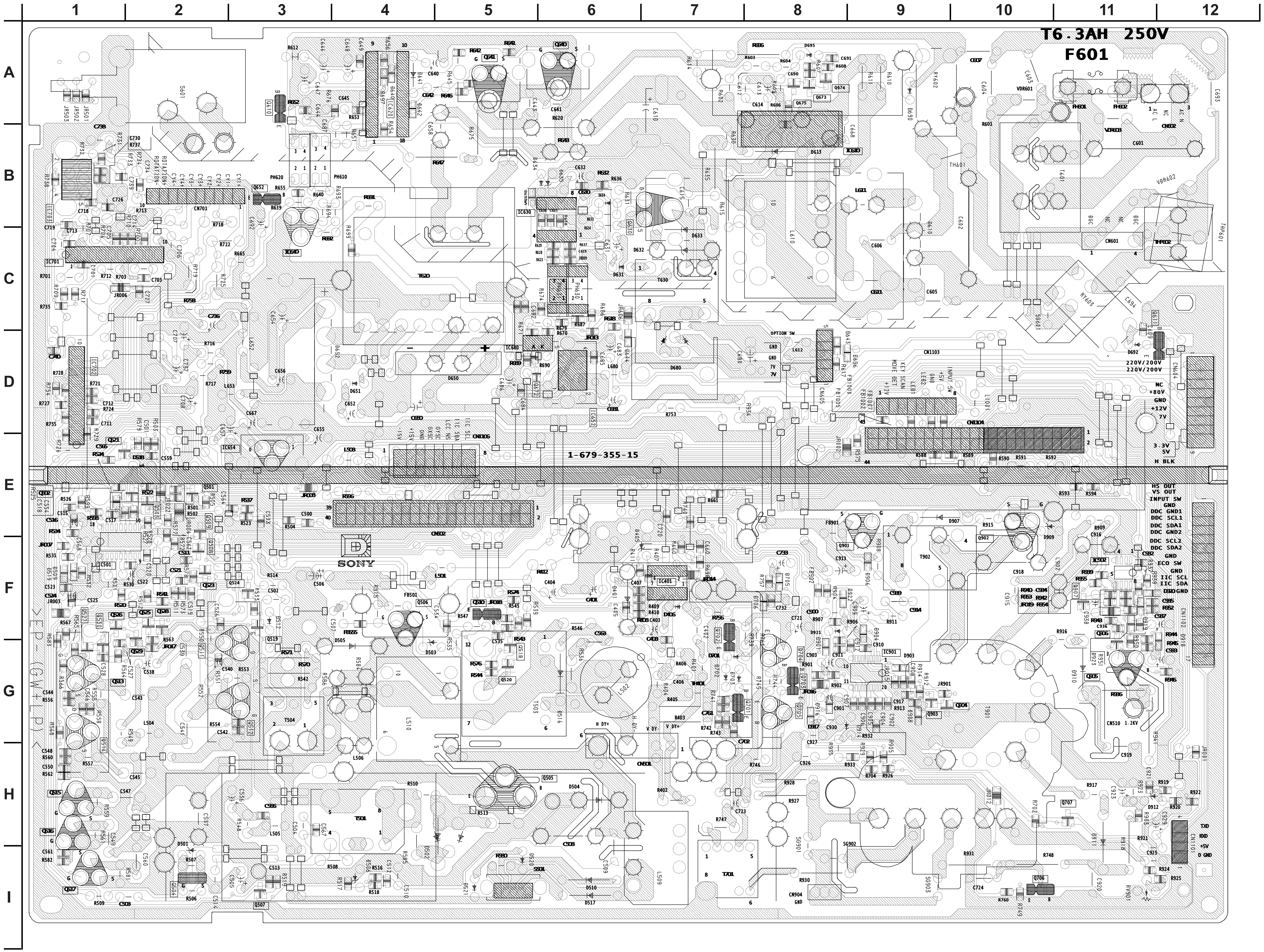
	G	D	S
Q504	-10.4	-0.2	-15
Q506	200	66.6	217.4
Q511	0.2	26.5	GND
Q512	4.9	24.8	GND
Q513	0.2	24.8	GND
Q514	0.2	24.8	GND
Q515	0.2	24.8	GND
Q516	0.2	24.8	GND
Q517	0.2	24.8	GND
Q630	1.2	385	1.2
Q640	4.4	190.1	GND
Q641	194.6	378	190.1
Q901	218.5	54.4	200
Q902	8.2	54.8	GND

All voltages are in V

D BOARD WAVEFORMS



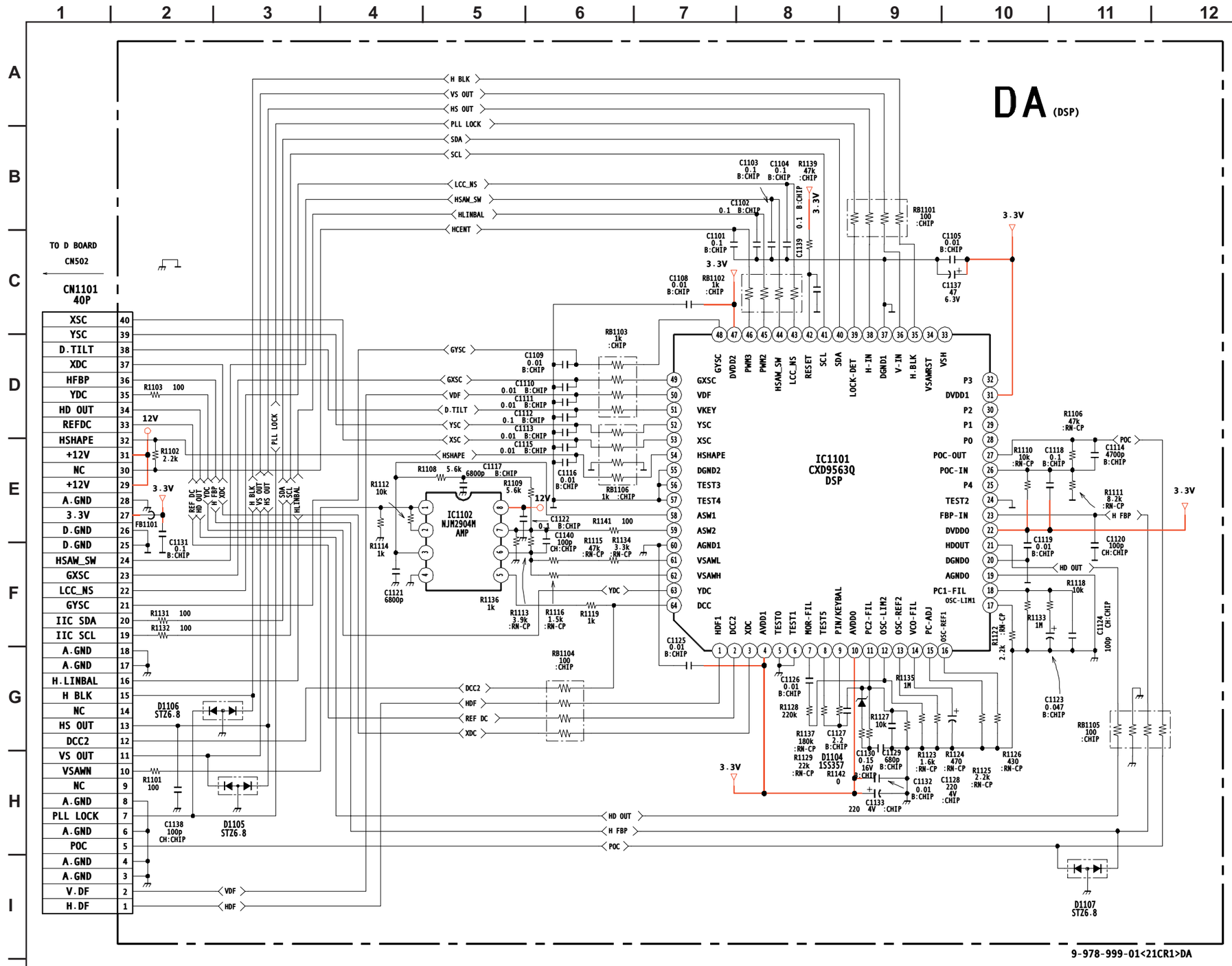
D [Deflection, HDF, VDF, HV, Power Supply]



D BOARD LOCATOR LIST

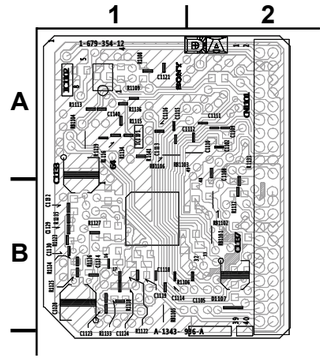
DIODE		DIODE		TRANSISTOR	
D401	F-6	D901	F-8	Q501	E-2
D405	F-6	D906	F-8	Q502	E-1
D501	I-2	D907	F-9	Q503	E-2
D502	H-5	D909	F-10	Q504	I-2
D503	G-4	D910	G-11	Q505	H-5
D504	H-6	D911	H-10	Q506	F-4
D505	F-4	D912	H-11	Q507	I-3
D506	I-4	D914	H-9	Q508	F-2
D509	F-1	D917	G-8	Q509	E-2
D510	I-6	D918	G-12	Q510	F-5
D512	F-3	D919	G-11	Q511	G-2
D516	G-6	D920	G-11	Q512	G-2
D517	I-6	D921	G-8	Q513	G-1
D518	E-2	D922	F-8	Q514	G-1
D519	F-1	D923	G-11	Q515	H-1
D520	I-5	IC		Q517	I-1
D521	I-5	IC401	F-6	Q516	H-1
D610	B-9	IC501	F-1	Q519	F-3
D613	B-8	IC610	B-8	Q521	E-1
D631	C-6	IC620	A-4	Q523	F-2
D632	C-6	IC630	B-5	Q524	F-2
D633	C-7	IC640	C-3	Q610	A-3
D634	B-6	IC652	D-6	Q611	D-11
D635	B-6	IC654	E-3	Q630	B-7
D641	A-4	IC680	D-5	Q640	A-6
D643	C-6	IC701	C-1	Q641	A-5
D644	C-6	IC702	D-1	Q652	B-3
D650	D-5	IC703	B-1	Q701	G-7
D651	D-4	IC901	G-9	Q702	G-7
D652	D-4	IC902	F-11	Q703	G-8
D680	D-7			Q704	G-8
D690	A-9			Q705	G-8
D692	D-11			Q706	I-10
D694	B-6			Q707	H-11
D697	A-4			Q901	E-9
D701	G-7			Q902	E-10
D702	G-7			Q903	G-9
D703	G-7			Q904	G-9
D705	F-8			Q905	G-11
D706	F-8			Q906	F-11
				Q907	F-11

DA BOARD SCHEMATIC DIAGRAM



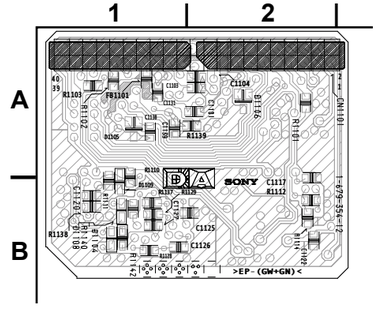
DA [DSP]

COMPONENT SIDE

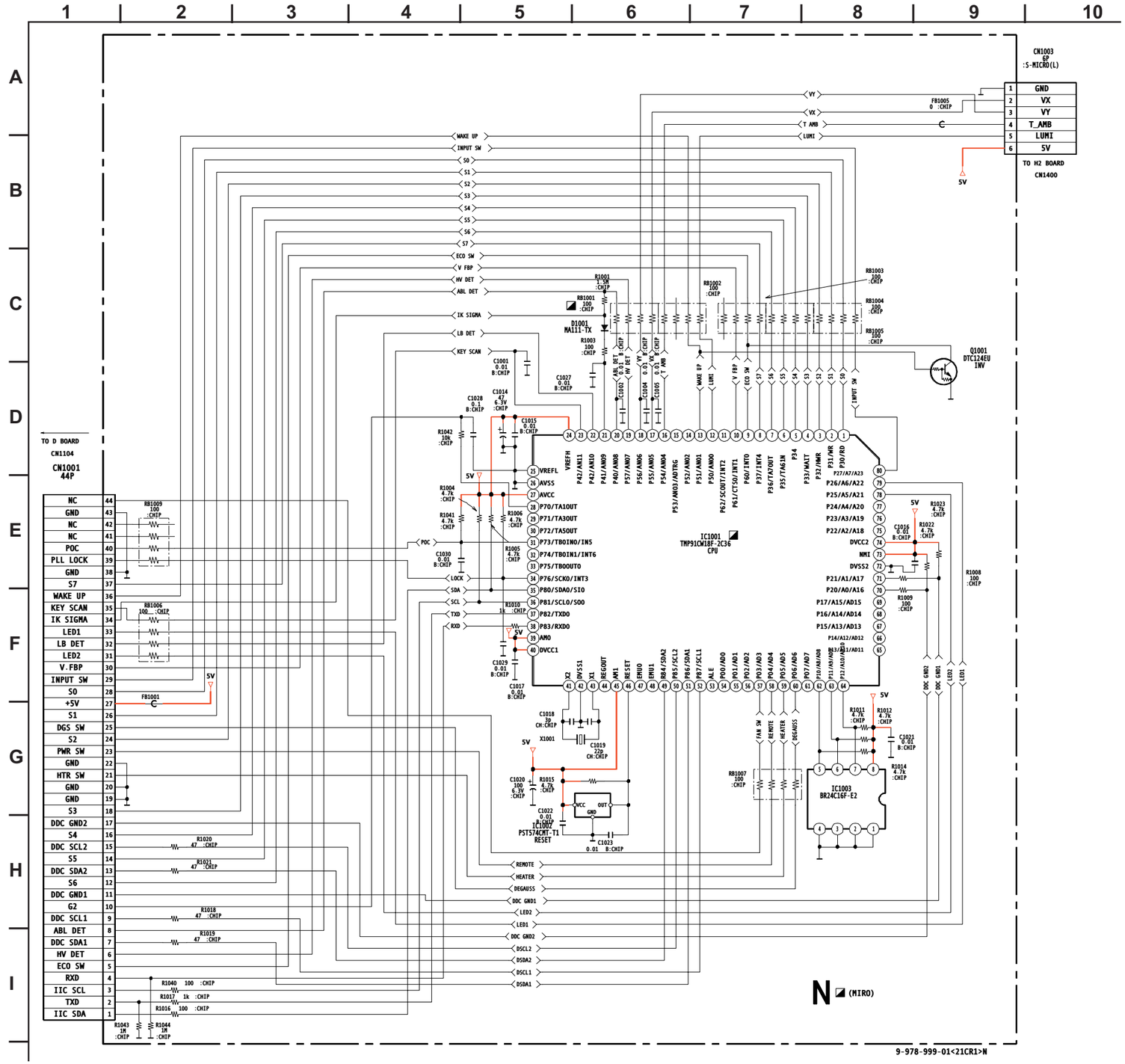


DA [DSP]

CONDUCTOR SIDE

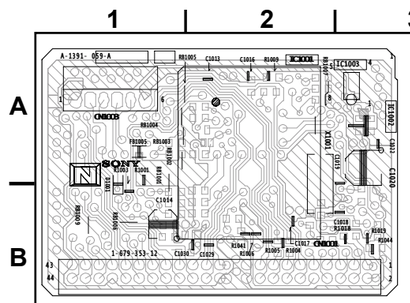


N BOARD SCHEMATIC DIAGRAM



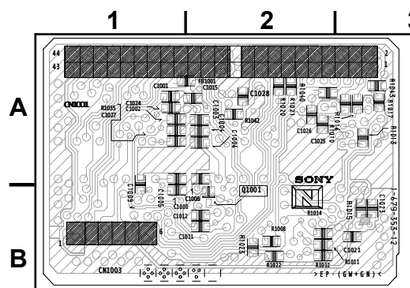
N [Micro]

COMPONENT SIDE

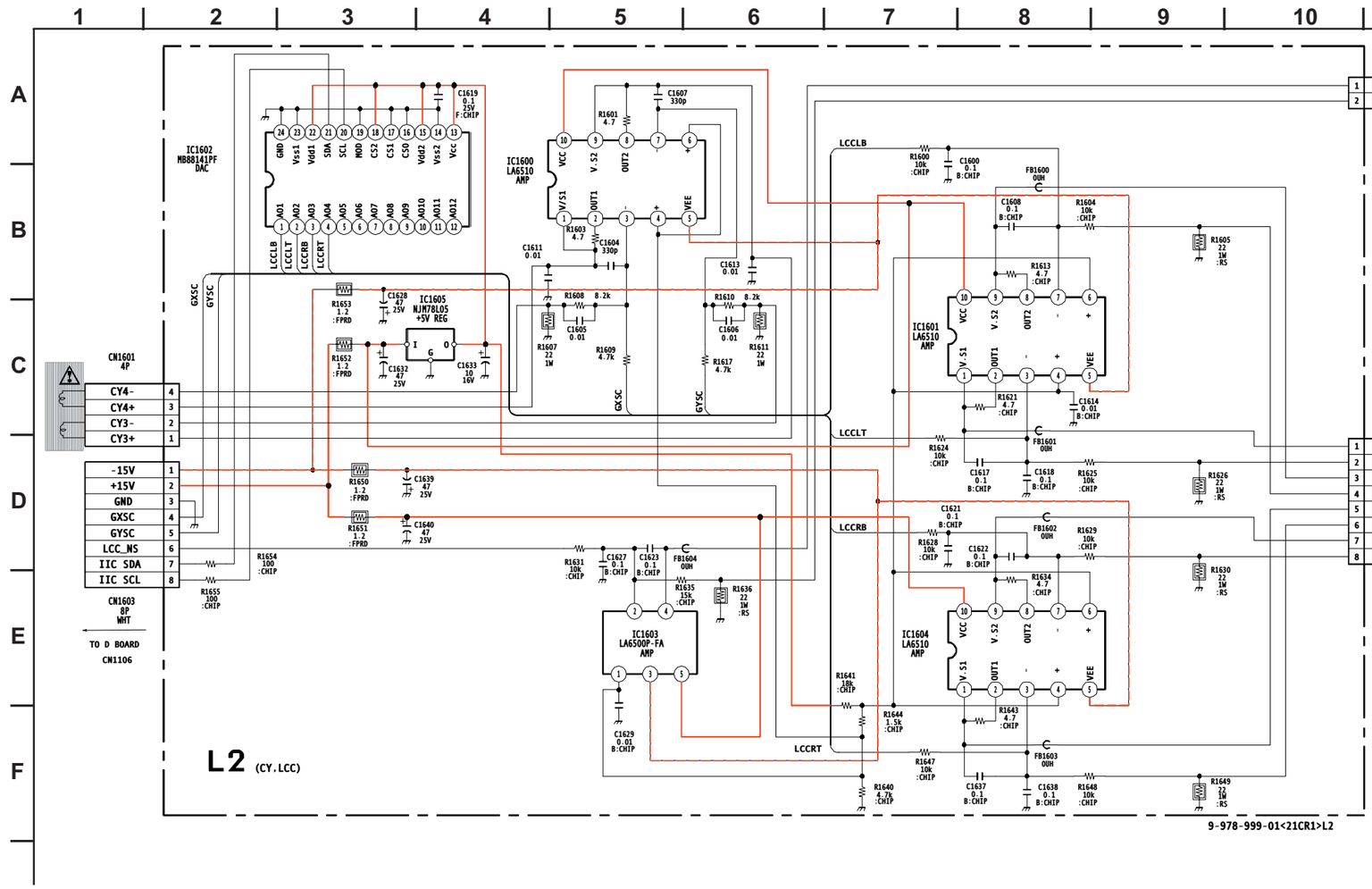


N [Micro]

CONDUCTOR SIDE

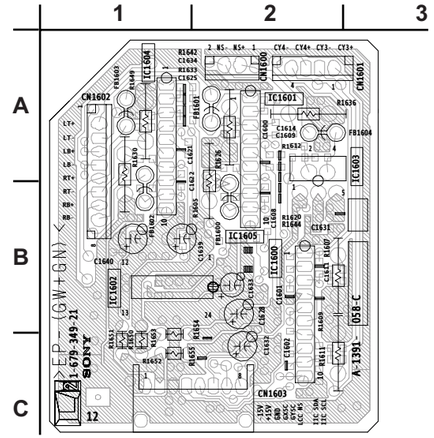


L2 BOARD SCHEMATIC DIAGRAM



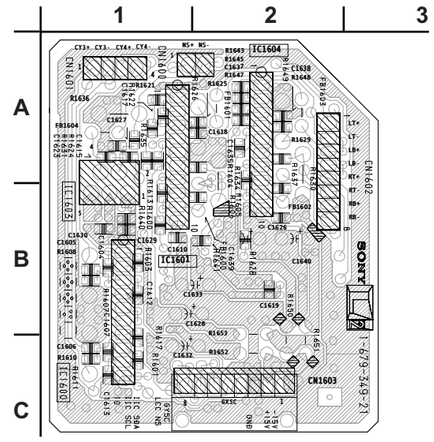
L2 [CY, LCC]

COMPONENT SIDE

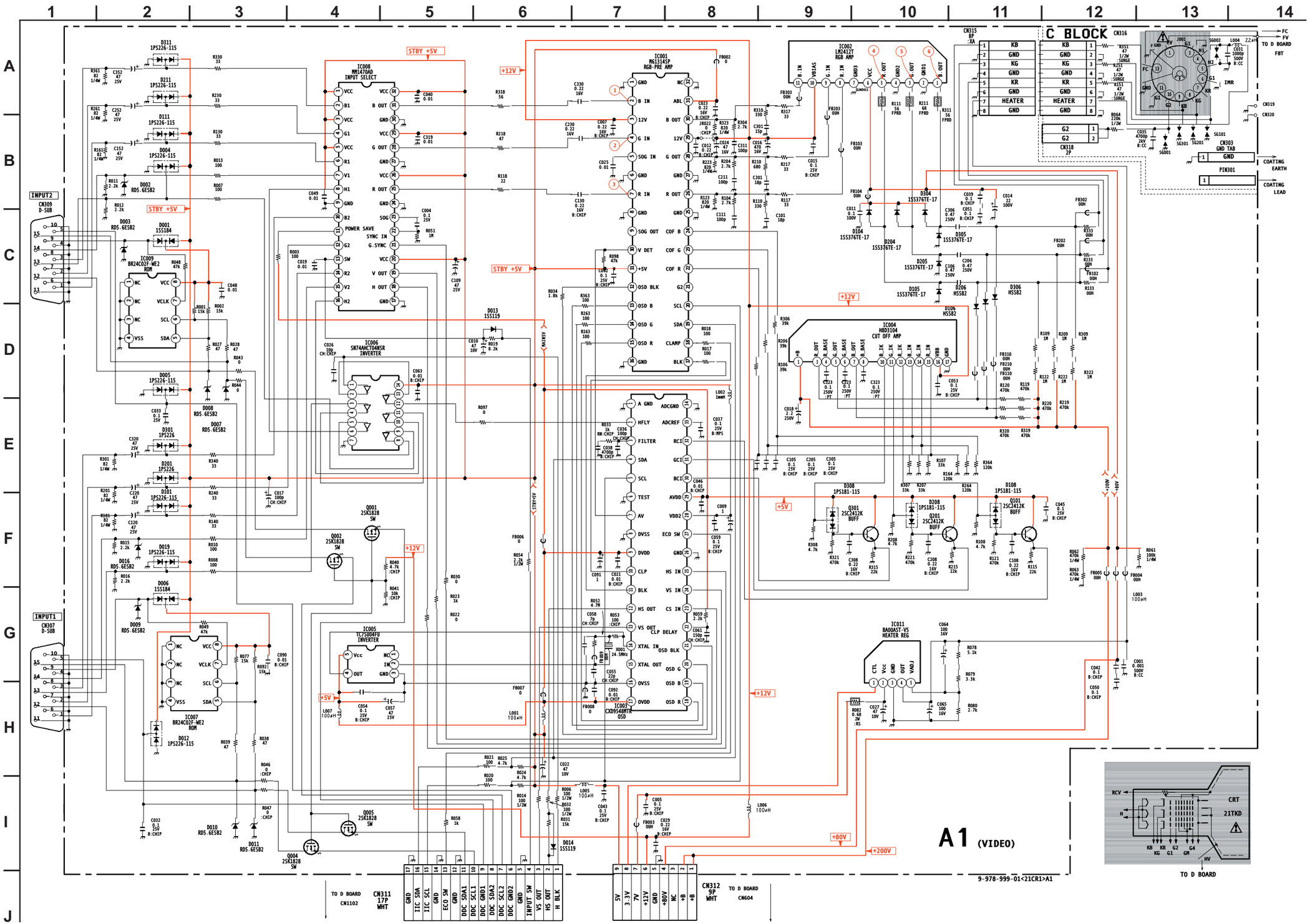


L2 [CY, LCC]

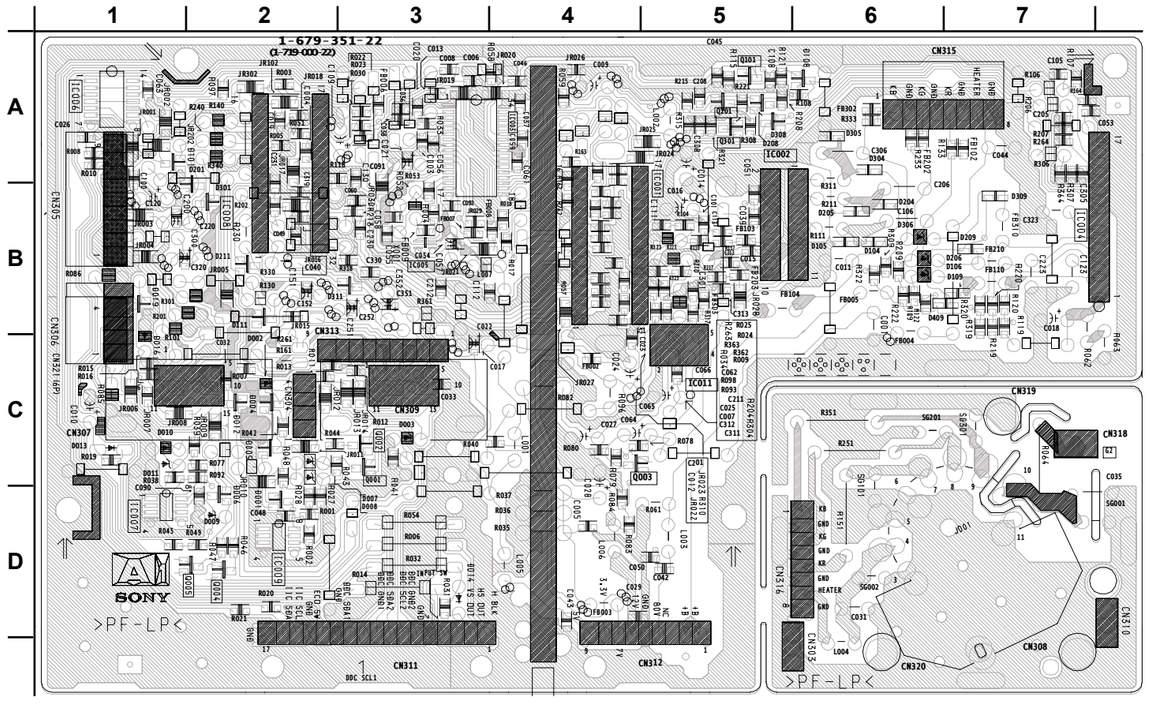
CONDUCTOR SIDE



A1 BOARD SCHEMATIC DIAGRAM



A1 [Video]



A1 BOARD LOCATOR LIST

DIODE		IC	
D002	C-2	IC001	B-4
D004	C-2	IC002	B-5
D006	D-2	IC003	A-3
D009	D-2	IC004	B-7
D010	C-2	IC005	B-3
D011	C-1	IC006	A-1
D012	C-2	IC007	D-1
D013	C-1	IC008	A-2
D014	D-4	IC009	D-2
D016	C-1	IC011	C-5
D019	B-1	**TRANSISTOR**	
D101	A-2	Q001	C-3
D104	B-6	Q002	C-3
D105	B-6	Q004	D-2
D106	B-7	Q005	D-2
D108	A-6	Q101	A-5
D111	B-2	Q201	A-5
D201	A-2	Q301	A-5
D204	B-6		
D205	B-6		
D206	B-7		
D208	A-5		
D211	B-2		
D301	B-2		
D304	A-6		
D305	A-6		
D306	B-6		
D308	A-5		
D311	B-3		

A1 BOARD IC VOLTAGE LIST

IC001	
pin	volt
1	GND
2	3.6
3	12.0
4	3.6
5	2.3
6	GND
7	3.6
8	GND
9	0.6
10	4.4
11	5
12	0
13	0
14	0
15	0
16	GND
17	0.8
18	0.1
19	4.7
20	4.5
21	NC
22	3.2
23	3.3
24	3
25	GND
26	2.6
27	GND
28	2.6
29	12
30	2.6
31	5
32	GND

IC002	
pin	volt
1	56.6
2	GND
3	56.3
4	GND
5	55.4
6	79.4
7	GND
8	2.6
9	2.6
10	12
11	2.6

IC003	
pin	volt
1	GND
2	0.4
3	2.2
4	4.7
5	4.5
6	GND
7	4.4
8	GND
9	5.0
10	0.1
11	0.8
12	0.3
13	0
14	2.1
15	NC
16	GND
17	5
18	0
19	0
20	0
21	0
22	4.3
23	0.6
24	4.2
25	0.5
26	GND
27	4.9
28	5
29	5
30	4.2
31	4.2
32	4.2
33	3.4
34	GND

IC004	
pin	volt
1	200.0
2	NC
3	108.3
4	103.0
5	108.4
6	103.0
7	106.9
8	101.6
9	NC
10	1.3
11	1.3
12	1.3
13	4.9
14	4.9
15	4.9
16	12.0
17	GND

IC005	
pin	volt
1	NC
2	2.3
3	GND
4	2.1
5	5.0

IC006	
pin	volt
1	0.3
2	4.5
3	0.0
4	4.9
5	4.6
6	0.3
7	GND
8	4.6
9	0.2
10	0.0
11	4.9
12	0.4
13	4.5
14	5.0

IC007	
pin	volt
1	GND
2	GND
3	GND
4	GND
5	4.2
6	4.2
7	0.0
8	5.0

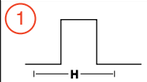
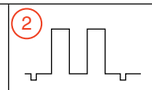
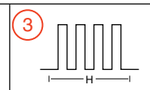
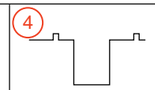
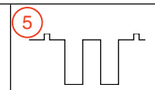
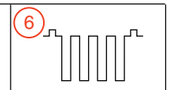
IC008	
pin	volt
1	5.0
2	1.4
3	5.0
4	1.4
5	5.0
6	1.4
7	4.0
8	0.3
9	GND
10	1.7
11	4.7
12	1.7
13	0
14	1.7
15	0
16	0.0
17	GND
18	0.4
19	4.1
20	5
21	0.6
22	3.1
23	2
24	GND
25	2.0
26	5
27	GND
28	2
29	5
30	GND
31	2
32	5.0

IC009	
pin	volt
1	GND
2	GND
3	GND
4	GND
5	4.2
6	4.3
7	4.1
8	5.0

IC011	
pin	volt
1	3.3
2	7.0
3	GND
4	4.9
5	1.2

All voltages are in V

• A BOARD WAVEFORMS

1	2	3	4	5	6
					
0.74 Vp-p (H)	1.12 Vp-p (H)	0.73 Vp-p (H)	54.5 Vp-p (H)	54.5 Vp-p (H)	56.0 Vp-p (H)

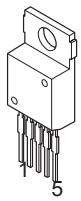
A1 BOARD TRANSISTOR LIST

	B	C	E
Q101	4.8	4.2	5
Q201	4.8	4.2	5
Q301	4.8	4.2	5

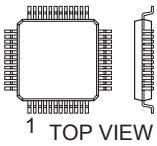
All voltages are in V

4-5. SEMICONDUCTORS

BA00AST-V5
LA6500-FA

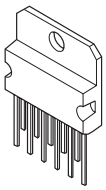


CXD9563Q



64pin QFP

LM2412AT
LM2412T



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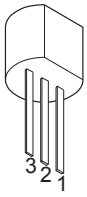
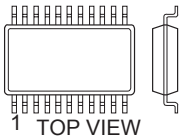
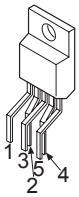


SN74AHCT04NSR



14pin SOP

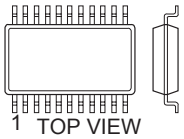
BA3953T-V5



FA13842P

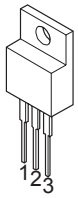
8pin DIP

MB88141PF-ER

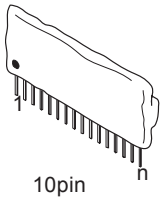


24 pin SOP

NJM7812FA
SEB3-LF4

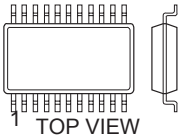


STK391-120



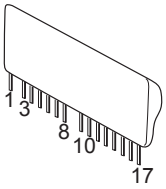
10pin

BA9758AFS-E2
BA9758FS-E2



20pin SOP

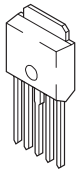
H8D3060



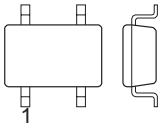
MCZ3001D

18pin DIP

PQ3TZ53U

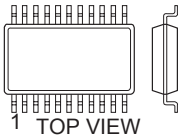


TC7SU04FU (TE85R)



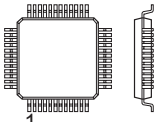
5pin Chip

BA9759F-E2



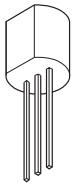
18pin SOP

KC82C160SH



44pin QFP

MM1431ATT



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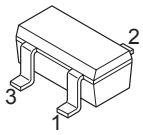
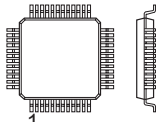
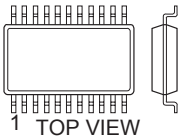


TMP91PW18F-1A22 (Z)



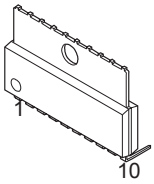
80pin QFP

BR24C16F-E2
BR24C21F-E2
NJM2904M
NJM2904M(TE2)



8pin SOP

LA6510



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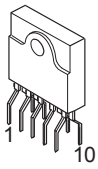
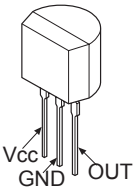


PST600J-T



DTA124EKA-T146
DTC124EK
DTC124EKA-T146
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2PD602AR-115
2SA1037AK-T146-QR
2SA1037AK-T146-R
2SA1162-G
2SB709A-QRS-TX
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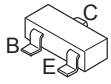
2SC1623-T1-L5L6
2SC2412K-T-146-Q
2SC2412K-T-146-QR



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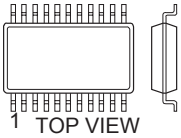
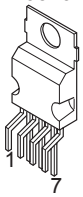


34pin SOP

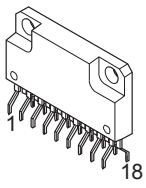
LA78040
STV9379A



M61312SP
MM1470AD

32pin DIP

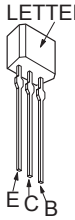
SLA3006M (LF874)



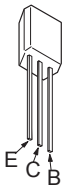
SEMICONDUCTORS (CONT.)

DTA124ESA
DTA124ESA-TP
DTC114ESA
DTC114ESA-TP
DTC143XSA
DTC143XSA-TP
2SC2459-GR-TPE4
2SC2784

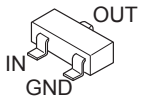
LETTER SIDE



DTA143ZSA-TP
DTC114TSA
DTC114TSA-TP
2SA1049-GR
2SA1049TP-GR



DTC124EUA-T106
DTC124EUT106



FS10KMJ-3-AZ
FS30KMJ-3-AZ
FS5KM-18A-AT
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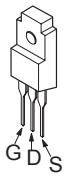
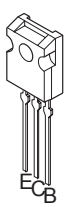
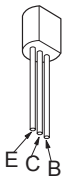
2SJ585LS-CB11
2SK2098-01MR-F119
2SK2876-01MR-F122
2SK3155-01
2SK3332



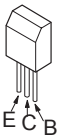
2SA1358-Y
2SC3421-Y



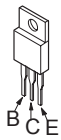
2SC2362K-G
2SC2362KG-AA



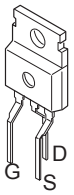
2SC4620TV2Q
2SD774-34
2SD774-T-34



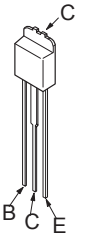
2SC4634LS-CB11



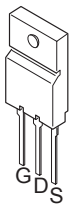
2SC5682-CC
2SJ585LS-CC11



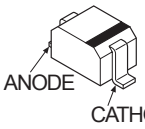
IRFU110
2SK2231



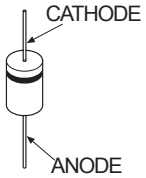
2SK2647-01MR-F91



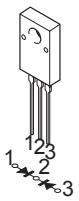
DTZ10B
DTZ13B
MA111-(K8).S0
MA111-TX
UDZ-TE-17-13B
UDZ-TE-17-3.9B
UDZS-TE17-10B
UDZS-TE17-5.1B
UDZS-TE17-5.6B
UDZS-TE17-9.1B
1SS357-TPH3



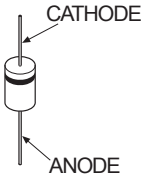
D1NL20U-TR
D1NL20U-TR2
D1NL40-TA
D1NL40-TA2
D2L40-TA
ERA34-10TP1
ERB38-06V1
HSS82-TJ
HZS5B2-TE
NNCD5.6A-T1
P6KE200AG23
RGP02-17EL-6433
RGP02-20EL-6394
RP1H-V1
11DF2N-TA2B2



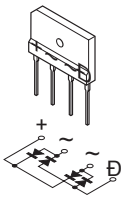
D10SC9M



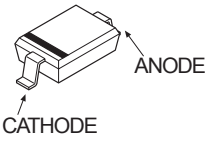
D3S4M
EGP10D
EGP10GPKG23
ERC81-004



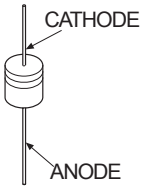
D4SB60L
D4SBL40
D4SBS4
D4SBS4-F



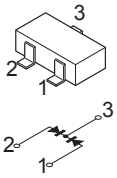
HSU83TRF



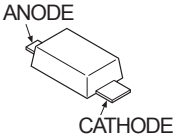
HZS182-TE
RB441Q-40T-77
RD15ES-B3
RD15ES-T1B3
RD18ESB
RD27ES-B2
RD27ES-T1B
RD5.1ES-T1B2
RD5.1ESB2
RD5.6ESB2
1SS119-25
1SS119-25TD



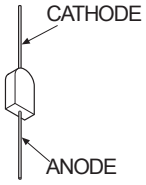
MA151WK-TX
1SS184



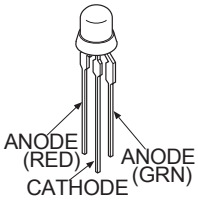
MA8039



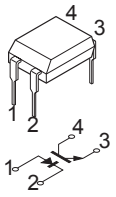
RM11A
RM11C



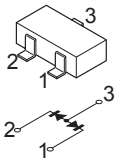
SML79423C-TP15



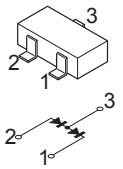
TLP421F (D4-SONY)



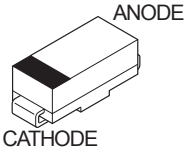
1PS181-115



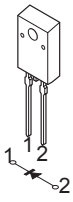
1PS226-115



1SS376TE-17



5TUZ52C (SONY1)



SECTION 5: EXPLODED VIEW

Components not identified by a part number or description are not stocked because they are seldom required for routine service.

The component parts of an assembly are indicated by the reference numbers in the far right column of the parts list and within the dotted lines of the diagram.

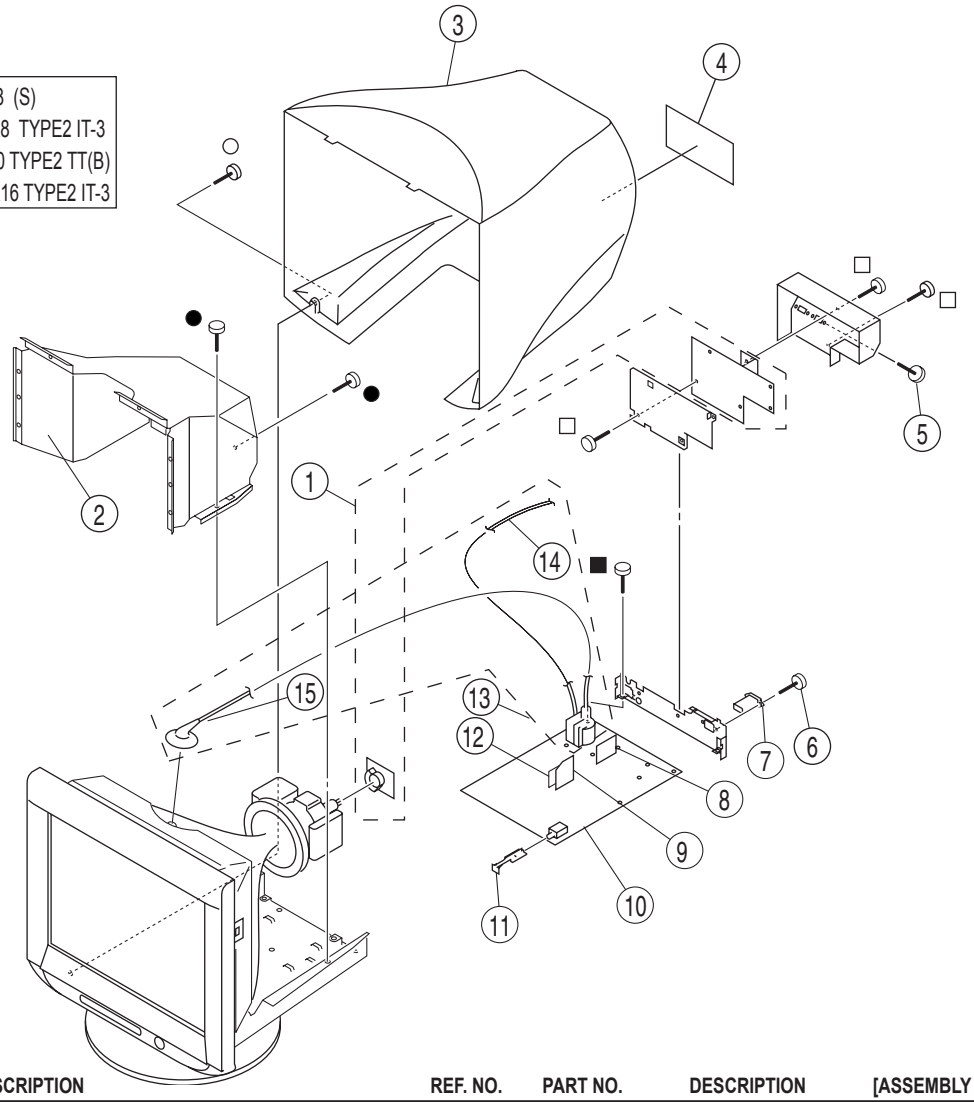
*** Items marked with an asterisk are not stocked since they are seldom required for routine service. Expect some delay when ordering these components.**

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

5-1. CHASSIS

●	7-685-881-09	SCREW +BVTT 4X8 (S)
□	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3
■	7-685-647-79	SCREW +BVTP 3X10 TYPE2 TT(B)
○	7-685-663-71	SCREW +BVTP 4X16 TYPE2 IT-3



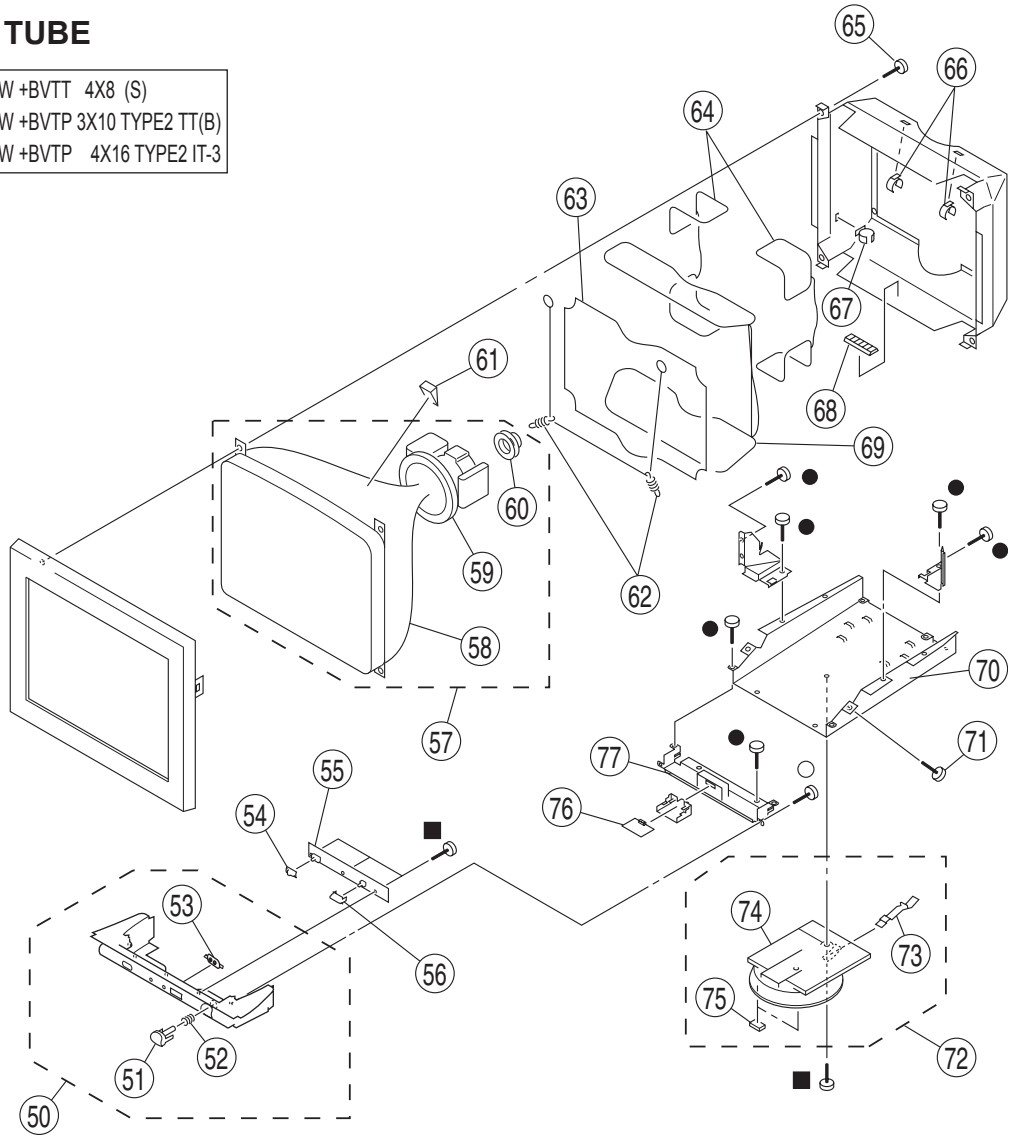
	REF. NO.	PART NO.	DESCRIPTION
*	1	A-1299-419-A	A1 BOARD, COMPLETE
	2	X-4038-603-3	SHIELD ASSY, EMI
	3	X-4039-709-1	CABINET ASSY
*	4	4-090-840-11	LABEL, INFORMATION
	5	4-635-966-01	SCREW (HEX)
	6	4-052-345-01	SCREW, (3X8) (+K), TAPPING
⚠	7	1-251-382-31	INLET, AC 3P (WITH NOISE FILTER)
*	8	A-1391-095-A	N BOARD, MOUNTED
*	9	A-1391-119-A	L2 BOARD, MOUNTED
*	10	A-1348-031-E	D BOARD, COMPLETE The high-voltage leads associated with the FBT on the D board are not included and must be ordered separately. (See 14-15)
	11	4-079-799-01	BAR, EXTENSION
*	12	A-1333-007-A	DA BOARD, MOUNTED
⚠	13	1-451-382-11	FBT ASSY/NX-4702//KQE4 (14-15)
⚠	14	1-900-805-55	WIRE ASSY, FOCUS LEAD
⚠	15	1-251-715-63	CAP ASSY, HIGH-VOLTAGE

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

5-2. PICTURE TUBE

●	7-685-881-09	SCREW +BVTT 4X8 (S)
■	7-685-647-79	SCREW +BVTP 3X10 TYPE2 TT(B)
○	7-685-663-71	SCREW +BVTP 4X16 TYPE2 IT-3



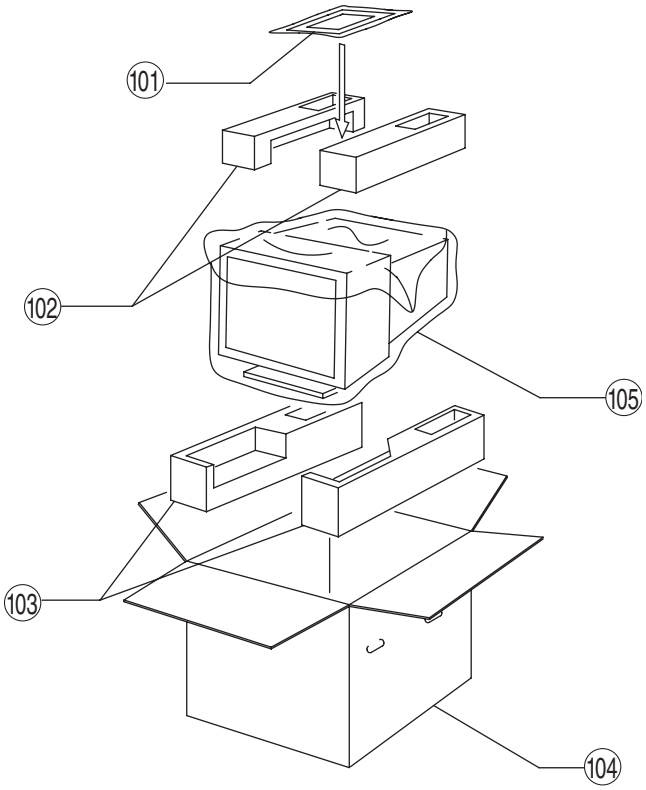
	REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]
	50	X-4039-711-1	PANEL ASSY, CONTROL	(51-53)
	51	4-086-246-01	BUTTON, POWER	
	52	4-042-593-11	SPRING, COMPRESSION	
	53	4-086-244-01	BUTTON, MULTI	
	54	4-086-239-01	SELECTOR INPUT	
*	55	A-1400-173-A	H2 BOARD, MOUNTED	
	56	4-086-238-01	BUTTON, MENU	
⚠	57	8-734-046-06	ITC ASSY 21TKD-R2	(58-60)
⚠	58	8-738-848-05	CRT 21TKD (B COAT)	
⚠	59	8-451-519-11	DY Y21TKN-M	
⚠	60	1-452-923-51	NECK ASSEMBLY	
	61	2-162-100-31	SPACER, DY	
	62	4-061-573-11	SPRING, TENSION	
⚠	63	1-419-130-21	COIL, LANDING CORRECTION	
⚠	64	1-419-129-21	COIL, LANDING CORRECTION	

	REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]
	65	4-365-808-01	SCREW (5), TAPPING	
	66	4-041-021-21	HOLDER, DEGAUSS COIL	
	67	4-071-175-01	HOLDER, DGC	
	68	4-062-670-01	SPACER, CRT	
⚠	69	1-419-838-11	COIL, DEGAUSSING	
	70	X-4038-783-1	CHASSIS ASSY, BASE	
⚠	71	4-389-025-01	SCREW (M4) (EXT TOOTH WASHER)	
	72	X-4039-710-1	BASE ASSY, STAND	(73-75)
	73	4-080-252-03	STOPPER	
	74	4-080-256-91	SLIDER	
*	75	4-060-533-01	CUSHION	
	76	8-610-158-71	SENSOR, MAGNETIC MIU-221D	
	77	X-4039-712-1	SUPPORT ASSY, CRT SHIELD	

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

5-3. PACKING MATERIALS (FOR GDM-C520 ONLY)

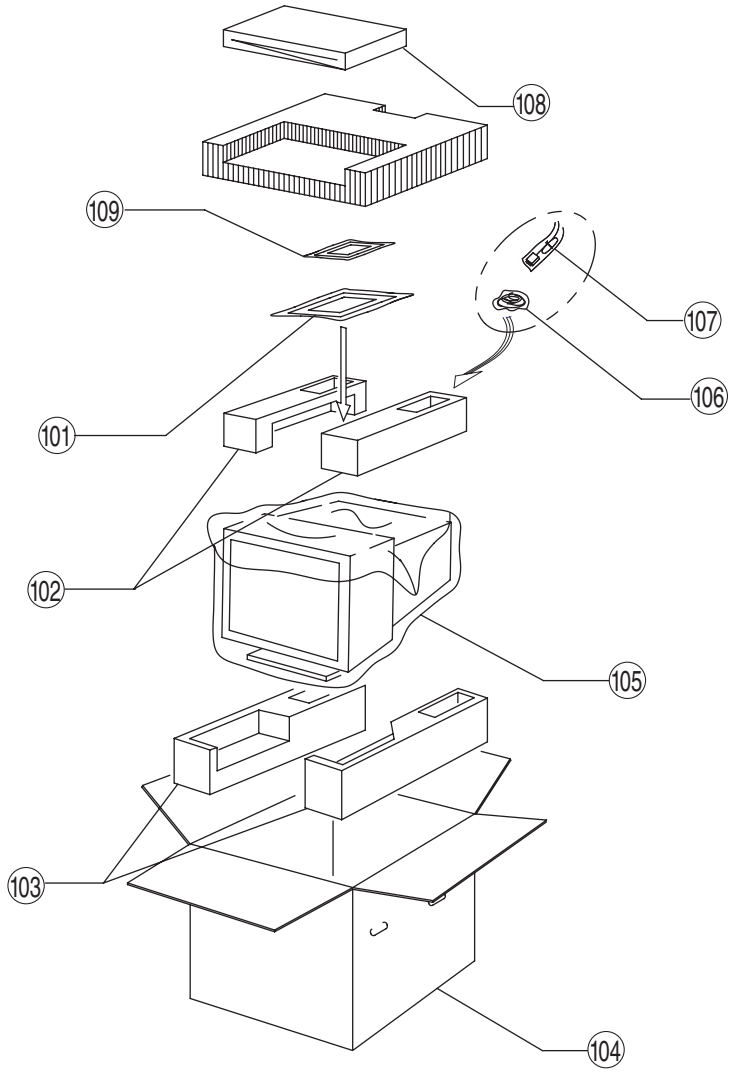


	REF. NO.	PART NO.	DESCRIPTION
⚠	101	1-782-784-32	CORD SET, POWER
*	102	4-086-315-01	CUSHION, UPPER
*	103	4-086-316-01	CUSHION, LOWER
*	104	4-093-924-01	CARTON, INDIVIDUAL
*	105	4-041-255-23	BAG, PROTECTION

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

5-4. PACKING MATERIALS (FOR GDM-C520K ONLY)



	REF. NO.	PART NO.	DESCRIPTION
⚠	101	1-782-784-32	CORD SET, POWER
*	102	4-086-315-01	CUSHION, UPPER
*	103	4-086-316-01	CUSHION, LOWER
*	104	4-093-924-01	CARTON, INDIVIDUAL
*	105	4-041-255-23	BAG, PROTECTION
	106	X-4040-802-1	CASE ASSY, SENSOR
	106	1-477-557-12	SENSOR CABLE (COLOR CALIBRATION)
	107	1-824-656-12	CABLE ASSY (DIGITAL CABLE)
	108	4-091-105-01	HOOD
	109	1-796-509-21	CD ROM
	109	4-094-173-11	GUIDE, QUICK SETUP

SECTION 6: ELECTRICAL PARTS LIST

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components in this manual identified by the following symbol: ⋈ indicate parts that have been carefully factory-selected to satisfy regulations regarding X-ray radiation for each set.

Should replacement be required for one of these components, replace only with the value originally used.

* Items marked with an asterisk are not stocked since they are seldom required for routine service. Expect some delay when ordering these components.

H2

RESISTORS
- All resistors are in ohms
- F : nonflammable
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When ordering parts by reference number, please include the board name.

H2

REF. NO.	PART NO.	DESCRIPTION	VALUES		
*	A-1400-173-A	H2 BOARD, MOUNTED			
		CAPACITOR			
C1400	1-126-795-11	ELECT	10µF	20%	50V
C1401	1-126-786-11	ELECT	47µF	20%	16V
C1402	1-126-786-11	ELECT	47µF	20%	16V
C1403	1-137-150-11	FILM	0.01µF	5%	100V
C1404	1-137-150-11	FILM	0.01µF	5%	100V
C1405	1-126-786-11	ELECT	47µF	20%	16V
C1407	1-126-786-11	ELECT	47µF	20%	16V
C1498	1-130-495-00	MYLAR	0.1µF	5%	50V
		CONNECTOR			
CN1400	1-564-593-11	PLUG, CONNECTOR	14P		
* CN1401	1-564-520-11	PLUG, CONNECTOR	5P		
		DIODE			
D1400	8-719-080-89	DIODE	SPR-325MYTT31		
D1402	8-719-911-19	DIODE	1SS119-25		
D1403	8-719-911-19	DIODE	1SS119-25		
		FERRITE BEAD			
FB1401	1-412-911-11	FERRITE	0µH		
FB1402	1-412-911-11	FERRITE	0µH		
FB1403	1-412-911-11	FERRITE	0µH		
		TRANSISTOR			
Q1400	8-729-029-66	TRANSISTOR	DTC114ESA		
Q1401	8-729-029-68	TRANSISTOR	DTC114TSA		
Q1402	8-729-029-40	TRANSISTOR	DTA124ESA		

REF. NO.	PART NO.	DESCRIPTION	VALUES		
		RESISTOR			
R1400	1-215-405-00	METAL	220	1%	1/4W
R1401	1-215-405-00	METAL	220	1%	1/4W
R1402	1-215-397-00	METAL	100	1%	1/4W
R1403	1-215-397-00	METAL	100	1%	1/4W
R1404	1-215-413-00	METAL	470	1%	1/4W
R1405	1-249-441-11	CARBON	100K	5%	1/4W
R1406	1-249-411-11	CARBON	330	5%	1/4W
R1407	1-249-413-11	CARBON	470	5%	1/4W
R1408	1-249-413-11	CARBON	470	5%	1/4W
R1409	1-249-441-11	CARBON	100K	5%	1/4W
R1419	1-249-441-11	CARBON	100K	5%	1/4W
R1420	1-249-429-11	CARBON	10K	5%	1/4W
R1421	1-215-445-00	METAL	10K	1%	1/4W
R1422	1-249-433-11	CARBON	22K	5%	1/4W
R1423	1-249-433-11	CARBON	22K	5%	1/4W
R1424	1-215-453-00	METAL	22K	1%	1/4W
		SWITCH			
S1400	1-762-196-21	SWITCH, TACTILE			
S1401	1-762-196-21	SWITCH, TACTILE			
S1402	1-771-734-11	SWITCH, TACTILE			
S1403	1-571-427-11	SWITCH, SLIDE			
		THERMISTOR			
TH1400	1-807-796-11	THERMISTOR			

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

D

REF. NO.	PART NO.	DESCRIPTION	VALUES

D

* **A-1348-031-E D BOARD, COMPLETE**

The high-voltage leads associated with the FBT on the D board are not included and must be ordered separately. Order the following leads when requesting this D board.

⚠	1-900-805-55	WIRE ASSY, FOCUS LEAD	
⚠	1-251-715-63	CAP ASSY, HIGH-VOLTAGE	

CAPACITOR

C401	1-128-528-11	ELECT	470µF	20%	25V
C402	1-130-785-11	MYLAR	0.47µF	5%	100V
C403	1-107-911-11	ELECT	220µF	20%	50V
C404	1-128-528-11	ELECT	470µF	20%	25V
C405	1-163-009-91	CERAMIC CHIP	0.001µF	10%	50V
C406	1-130-475-00	MYLAR	0.0022µF	5%	50V
C407	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C408	1-163-222-11	CERAMIC CHIP	5pF	0.25pF	50V
C500	1-163-259-91	CERAMIC CHIP	220pF	5%	50V
C502	1-137-150-11	FILM	0.01µF	5%	100V
C503	1-130-495-00	MYLAR	0.1µF	5%	50V
C504	1-136-287-11	FILM	0.0047µF	5%	100V
C505	1-126-949-11	ELECT	220µF	20%	35V
C506	1-127-810-51	ELECT	22µF	20%	250V
C507	1-136-207-11	MYLAR	0.047µF	5%	630V
C508	1-137-715-11	FILM	3300pF	3%	1.8KV
C509	1-107-444-11	CERAMIC	100pF	5%	2KV
C510	1-136-684-51	FILM	0.0022µF	2.00%	100V
C511	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C512	1-163-005-91	CERAMIC CHIP	470pF	10%	50V
C513	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C514	1-136-287-11	FILM	0.0047µF	5%	100V
C515	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C516	1-126-934-11	ELECT	220µF	20%	16V
C517	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
C519	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V
C520	1-163-023-00	CERAMIC CHIP	0.015µF	10%	50V
C521	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C522	1-126-965-91	ELECT	22µF	20%	50V
C524	1-126-941-11	ELECT	470µF	20%	25V
C525	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C533	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V
C534	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C535	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C536	1-107-665-11	ELECT	0.47µF	20%	400V
C537	1-137-868-11	FILM	0.13µF	5%	400V
C538	1-107-651-11	ELECT	4.7µF	20%	250V
C539	1-115-356-11	FILM	1.2µF	5%	250V
C540	1-107-888-11	ELECT	47µF	20%	25V
C541	1-115-521-11	FILM	0.82µF	5%	250V
C542	1-164-346-11	CERAMIC CHIP	1µF		16V
C543	1-117-666-11	FILM	0.39µF	5%	250V
C544	1-164-005-11	CERAMIC CHIP	0.47µF		25V
C545	1-117-662-11	FILM	0.18µF	5%	250V
C546	1-164-222-91	CERAMIC CHIP	0.22µF		25V
C547	1-119-860-21	FILM	0.082µF	5%	250V
C548	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C549	1-136-060-00	FILM	0.047µF	5%	400V
C550	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C554	1-163-009-91	CERAMIC CHIP	0.001µF	10%	50V
C559	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C560	1-137-856-11	FILM	0.018µF	5%	400V
C561	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C562	1-163-009-91	CERAMIC CHIP	0.001µF	10%	50V
C563	1-104-572-11	CERAMIC	0.0022µF	10%	2KV
C564	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C565	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C566	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C601	1-107-533-11	MYLAR	1µF	20%	250V
C602	1-104-708-11	MYLAR	0.47µF	20%	250V
⚠ C603	1-113-900-11	CERAMIC	470pF	10%	250V
⚠ C604	1-113-900-11	CERAMIC	470pF	10%	250V
C605	1-113-926-11	CERAMIC	0.0047µF		250V
C606	1-113-926-11	CERAMIC	0.0047µF		250V
⚠ C607	1-113-920-11	CERAMIC	0.0022µF	20%	250V
C610	1-137-673-11	ELECT	330µF	20%	450V
C611	1-117-227-11	MYLAR	1µF	10%	450V
C612	1-136-169-00	FILM	0.22µF	5%	50V
C613	1-126-967-11	ELECT	47µF	20%	50V
C614	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C615	1-104-564-91	CERAMIC	100pF	10%	2KV
C629	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V
C630	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C631	1-104-665-11	ELECT	100µF	20%	25V
C632	1-126-961-11	ELECT	2.2µF	20%	50V
C635	1-163-005-91	CERAMIC CHIP	470pF	10%	50V
C636	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C640	1-126-795-11	ELECT	10µF	20%	50V

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
C641	1-107-792-11	CERAMIC	100pF	5%	1KV
C642	1-136-189-00	MYLAR	0.1µF	10%	250V
C643	1-107-792-11	CERAMIC	100pF	5%	1KV
C644	1-136-165-00	FILM	0.1µF	5%	50V
C645	1-136-479-11	FILM	0.001µF	5%	100V
C646	1-126-961-11	ELECT	2.2µF	20%	50V
C647	1-126-963-11	ELECT	4.7µF	20%	50V
C648	1-126-967-11	ELECT	47µF	20%	50V
C649	1-163-009-91	CERAMIC CHIP	0.001µF	10%	50V
C650	1-107-656-11	ELECT	100µF	20%	250V
C652	1-128-563-11	ELECT	100µF	20%	100V
C654	1-126-943-11	ELECT	2200µF	20%	25V
C655	1-126-947-11	ELECT	47µF	20%	35V
C656	1-126-943-11	ELECT	2200µF	20%	25V
C657	1-126-947-11	ELECT	47µF	20%	35V
C658	1-137-725-22	FILM	8200pF	3%	800V
C667	1-107-909-11	ELECT	47µF	20%	50V
C680	1-107-886-11	ELECT	4700µF	20%	16V
C681	1-107-889-11	ELECT	220µF	20%	25V
C682	1-136-287-11	FILM	0.0047µF	5%	100V
C683	1-115-706-11	ELECT	220µF	20%	6.3V
C686	1-115-706-11	ELECT	220µF	20%	6.3V
C687	1-130-495-00	MYLAR	0.1µF	5%	50V
C692	1-115-706-11	ELECT	220µF	20%	6.3V
C701	1-163-003-11	CERAMIC CHIP	330pF	10%	50V
C703	1-163-003-11	CERAMIC CHIP	330pF	10%	50V
C704	1-137-150-11	FILM	0.01µF	5%	100V
C705	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C706	1-137-150-11	FILM	0.01µF	5%	100V
C707	1-104-666-11	ELECT	220µF	20%	25V
C708	1-104-666-11	ELECT	220µF	20%	25V
C711	1-163-239-11	CERAMIC CHIP	33pF	5%	50V
C712	1-163-239-11	CERAMIC CHIP	33pF	5%	50V
C713	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C714	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C718	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C719	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C720	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C721	1-128-562-11	ELECT	47µF	20%	100V
C723	1-128-560-11	ELECT	22µF	20%	100V
C724	1-162-134-11	CERAMIC	470pF	10%	2KV
C726	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C727	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C730	1-163-009-91	CERAMIC CHIP	0.001µF	10%	50V
C732	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C733	1-117-722-11	ELECT	2200µF	20%	10V
C734	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C736	1-126-967-11	ELECT	47µF	20%	50V
C737	1-126-967-11	ELECT	47µF	20%	50V
C738	1-136-169-00	FILM	0.22µF	5%	50V
C761	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C900	1-107-713-11	ELECT	4.7µF	20%	50V
C901	1-104-665-11	ELECT	100µF	20%	25V
C902	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C903	1-126-962-11	ELECT	3.3µF	20%	50V
C904	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C905	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
C906	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C908	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C909	1-104-665-11	ELECT	100µF	20%	25V
C910	1-163-259-91	CERAMIC CHIP	220pF	5%	50V
C911	1-163-137-00	CERAMIC CHIP	680pF	5%	50V
C913	1-135-842-51	ELECT	47µF	20%	250V
C914	1-136-203-91	CAP, METALIZED FILM	0.01MF		
C915	1-137-867-11	FILM	0.00047µF	5%	250V
C916	1-117-665-11	FILM	0.33µF	5%	250V
C917	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C918	1-117-626-11	FILM	2000pF	3%	1.2KV
C919	1-115-349-51	CERAMIC	0.01µF		2KV
C920	1-115-349-51	CERAMIC	0.01µF		2KV
C921	1-163-038-91	CERAMIC CHIP	0.1µF		25V
C923	1-126-959-11	ELECT	0.47µF	20%	50V
C925	1-137-372-11	MYLAR	0.022µF	5%	50V
C926	1-106-220-00	MYLAR	0.1µF	10%	100V
C927	1-102-228-00	CERAMIC	470pF	10%	500V
C929	1-126-794-11	ELECT	4.7µF	20%	50V
C930	1-136-169-00	FILM	0.22µF	5%	50V
C932	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C933	1-126-786-11	ELECT	47µF	20%	16V
C935	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C936	1-163-009-91	CERAMIC CHIP	0.001µF	10%	50V
C937	1-126-796-11	ELECT	22µF	20%	50V
C938	1-126-935-11	ELECT	470µF	20%	16V

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D

	REF. NO.	PART NO.	DESCRIPTION	VALUES
		CONNECTOR		
	CN501	1-793-239-11	PIN, CONNECTOR (PC BOARD)	6P
*	CN601	1-580-689-11	PIN, CONNECTOR (PC BOARD)	4P
*⚠	CN602	1-691-960-11	PIN, CONNECTOR (PC BOARD)	
	CN604	1-770-724-11	CONNECTOR, BOARD TO BOARD	9P
*	CN701	1-764-333-11	PIN, CONNECTOR(PCB)(V TYPE)	10P
	CN904	1-695-915-11	TAB (CONTACT)	
*	CN1101	1-508-879-11	BASE POST	4P
	CN1102	1-774-628-11	CONNECTOR, BOARD TO BOARD	17P
*	CN1103	1-564-511-11	PLUG, CONNECTOR	8P
		DIODE		
	D401	8-719-979-61	DIODE	EGP10GPKG23
	D405	8-719-109-85	DIODE	RD5.1ESB2
	D406	8-719-050-84	DIODE	RB441Q-40T-77
	D501	8-719-110-47	DIODE	RD18ESB
	D502	8-719-054-71	DIODE	D5SC4M-F
	D503	8-719-110-47	DIODE	RD18ESB
	D504	8-719-066-36	DIODE	FMQ-G5GS
	D505	8-719-052-86	DIODE	D2L40-TA
	D506	8-719-062-89	DIODE	HZS5B2-TE
	D509	8-719-404-50	DIODE	MA111-TX
	D510	8-719-082-50	DIODE	11DF2N-TA2B2
	D512	8-719-911-19	DIODE	1SS119-25
	D516	8-719-052-90	DIODE	D1NL40-TA2
	D517	8-719-082-50	DIODE	11DF2N-TA2B2
	D518	8-719-050-84	DIODE	RB441Q-40T-77
	D519	8-719-069-54	DIODE	UDZSTE-175.1B
	D520	8-719-911-19	DIODE	1SS119-25
	D521	8-719-911-19	DIODE	1SS119-25
	D610	8-719-510-53	DIODE	D4SB60L
	D613	8-719-304-63	DIODE	RM11C
	D631	8-719-063-73	DIODE	D1NL20U-TR
	D632	8-719-059-23	DIODE	P6KE200AG23
	D633	8-719-069-63	DIODE	ERB38-06V1
	D634	8-719-063-73	DIODE	D1NL20U-TR
	D635	8-719-110-67	DIODE	RD27ESB2
	D641	8-719-069-63	DIODE	ERB38-06V1
	D643	8-719-404-50	DIODE	MA111-TX
	D644	8-719-404-50	DIODE	MA111-TX
	D650	8-719-064-49	DIODE	D4SBL40
	D651	8-719-063-74	DIODE	D1NL20U-TR2
	D652	8-719-052-91	DIODE	D4SBS4-F
	D680	8-719-510-41	DIODE	D10SC9M
	D690	8-719-911-19	DIODE	1SS119-25
	D692	8-719-911-19	DIODE	1SS119-25
	D694	8-719-911-19	DIODE	1SS119-25
	D697	8-719-404-50	DIODE	MA111-TX
	D701	8-719-911-19	DIODE	1SS119-25
	D702	8-719-911-19	DIODE	1SS119-25
	D703	8-719-911-19	DIODE	1SS119-25
	D705	8-719-404-50	DIODE	MA111-TX
	D706	8-719-069-54	DIODE	UDZSTE-175.1B
	D901	8-719-404-50	DIODE	MA111-TX
	D906	8-719-083-63	DIODE	UDZSTE-1713B
	D907	8-719-052-86	DIODE	D2L40-TA
	D909	8-719-110-47	DIODE	RD18ESB
	D910	8-719-028-72	DIODE	RGP02-17EL-6433
	D911	8-719-018-82	DIODE	RGP02-20EL-6394
	D912	8-719-110-42	DIODE	RD15ESB3
	D914	8-719-970-83	DIODE	HSS82-TJ
	D917	8-719-069-60	DIODE	UDZSTE-179.1B
	D918	8-719-404-50	DIODE	MA111-TX
	D919	8-719-069-54	DIODE	UDZSTE-175.1B
	D920	8-719-977-28	DIODE	DTZ10B
	D921	8-719-911-19	DIODE	1SS119-25
	D922	8-719-404-50	DIODE	MA111-TX
	D923	8-719-404-50	DIODE	MA111-TX
		FUSE		
⚠	F601	1-576-233-11	FUSE	6.3A 250V
		FERRITE BEAD		
	FB501	1-410-397-21	FERRITE	1.1µH
	FB555	1-216-295-00	SHORT CHIP	1/8W
	FB901	1-412-911-11	FERRITE	0µH
	FB902	1-414-231-22	FERRITE	0µH
	FB1000	1-414-231-22	FERRITE	0µH
	FB1002	1-216-295-00	SHORT CHIP	1/8W
	FB1005	1-216-295-00	SHORT CHIP	1/8W
	FB1007	1-216-295-00	SHORT CHIP	1/8W
		FUSE HOLDER		
⚠	FH601	1-533-725-11	FUSE HOLDER	0A 0V

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D

REF. NO.	PART NO.	DESCRIPTION	VALUES		
	IC				
IC401	8-759-696-71	IC	STV9379A		
IC501	8-759-585-82	IC	BA9759F-E2		
IC610	8-749-018-08	IC	MZ1532		
IC620	8-759-670-30	IC	MCZ3001D		
IC630	8-759-535-32	IC	FA13842P		
IC640	8-749-018-07	IC	SEB3-LF4		
IC652	8-759-669-10	IC	BA3953T-V5		
IC654	8-759-701-79	IC	NJM7812FA		
IC680	8-759-682-42	IC	MM1431ATT		
IC701	8-759-822-38	IC	LA6510		
IC702	8-749-017-48	IC	STK391-220		
IC703	8-759-803-42	IC	LA6500-FA		
IC901	8-759-585-81	IC	BA9758FS-E2		
IC902	8-759-701-01	IC	NJM2904M		
	CHIP CONDUCTOR				
JR001	1-216-295-00	SHORT CHIP		1/8W	
JR002	1-216-296-00	SHORT CHIP		1/4W	
JR003	1-216-296-00	SHORT CHIP		1/4W	
JR004	1-216-296-00	SHORT CHIP		1/4W	
JR006	1-216-296-00	SHORT CHIP		1/4W	
JR007	1-216-295-00	SHORT CHIP		1/8W	
JR008	1-216-296-00	SHORT CHIP		1/4W	
JR009	1-216-295-00	SHORT CHIP		1/8W	
JR012	1-216-296-00	SHORT CHIP		1/4W	
JR013	1-216-295-00	SHORT CHIP		1/8W	
JR014	1-216-296-00	SHORT CHIP		1/4W	
JR015	1-216-295-00	SHORT CHIP		1/8W	
JR016	1-216-296-00	SHORT CHIP		1/4W	
JR017	1-216-295-00	SHORT CHIP		1/8W	
JR018	1-216-295-00	SHORT CHIP		1/8W	
JR019	1-216-296-00	SHORT CHIP		1/4W	
JR022	1-216-296-00	SHORT CHIP		1/4W	
	JUMPER WIRE				
JW019	1-249-389-11	CARBON	4.7	5%	1/4W
	COIL				
L501	1-412-537-31	INDUCTOR	100µH		
L502	1-419-871-12	COIL, HORIZONTAL LINEARITY			
L504	1-406-673-81	INDUCTOR	2.2MH		
L505	1-406-675-81	INDUCTOR	4.7MH		
L506	1-406-673-81	INDUCTOR	2.2MH		

REF. NO.	PART NO.	DESCRIPTION	VALUES
L508	1-412-525-31	INDUCTOR	10µH
L509	1-419-869-31	COIL, HORIZONTAL CENTER	
L510	1-411-594-41	INDUCTOR	5MH
⚠ L610	1-419-837-11	INDUCTOR	340µH
L611	1-419-397-11	INDUCTOR	68µH
L612	1-412-521-31	INDUCTOR	4.7µH
L652	1-406-665-11	INDUCTOR	100µH
L653	1-406-665-11	INDUCTOR	100µH
L680	1-408-615-31	INDUCTOR	100µH
L902	1-406-661-11	INDUCTOR	22µH
L1001	1-412-911-11	FERRITE	0µH
	PHOTO COUPLER		
⚠ PH610	8-749-018-06	IC	TLP421F(D4-SONY)
⚠ PH620	8-749-018-06	IC	TLP421F(D4-SONY)
⚠ PH630	8-749-018-06	IC	TLP421F(D4-SONY)
	TRANSISTOR		
Q501	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q502	8-729-055-24	TRANSISTOR	KTC3876S-Y-RTK
Q503	8-729-055-27	TRANSISTOR	KTA1505S-Y-RTK
Q504	8-729-043-53	TRANSISTOR	IRFU110
Q505	8-729-053-30	TRANSISTOR	2SC5570(LBSONY1)
Q506	8-729-050-13	TRANSISTOR	2SJ585LS-CC11
Q507	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q508	8-729-055-24	TRANSISTOR	KTC3876S-Y-RTK
Q509	8-729-055-27	TRANSISTOR	KTA1505S-Y-RTK
Q510	8-729-423-33	TRANSISTOR	2SC3311A-QRSTA
Q511	6-550-365-01	TRANSISTOR	IRLI3615-LF33
Q512	6-550-188-01	TRANSISTOR	2SK3579-01MR-F119
Q513	8-729-046-62	TRANSISTOR	FS30KMJ-3-AZ
Q514	6-550-118-01	TRANSISTOR	IRLI3215-LF33
Q515	6-550-118-01	TRANSISTOR	IRLI3215-LF33
Q516	6-550-118-01	TRANSISTOR	IRLI3215-LF33
Q517	6-550-118-01	TRANSISTOR	IRLI3215-LF33
Q519	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R
Q521	8-729-901-00	TRANSISTOR	DTC124EK
Q523	8-729-027-31	TRANSISTOR	DTA124EKA-T146
Q524	8-729-901-00	TRANSISTOR	DTC124EK
Q610	8-729-029-55	TRANSISTOR	DTA143ZSA-TP
Q611	8-729-029-96	TRANSISTOR	DTC143XSA
Q630	8-729-045-03	TRANSISTOR	2SK2647-01MR-F91
Q640	8-729-052-29	TRANSISTOR	2SK2876-01MR-F122

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REF. NO.	PART NO.	DESCRIPTION	VALUES
Q641	8-729-052-29	TRANSISTOR	2SK2876-01MR-F122
Q652	8-729-029-66	TRANSISTOR	DTC114ESA
Q701	8-729-800-32	TRANSISTOR	2SC2362K-G
Q702	8-729-178-43	TRANSISTOR	2SC2784-E
Q703	8-729-204-91	TRANSISTOR	2SA1049-GR
Q704	8-729-207-82	TRANSISTOR	2SC3421-Y
Q705	8-729-207-89	TRANSISTOR	2SA1358-Y
Q706	8-729-045-47	TRANSISTOR	2SC4620TV2Q
Q707	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R
Q901	8-729-035-54	TRANSISTOR	2SJ449
Q902	8-729-053-42	TRANSISTOR	FS5KM-18A-AT
Q903	8-729-055-24	TRANSISTOR	KTC3876S-Y-RTK
Q904	8-729-055-27	TRANSISTOR	KTA1505S-Y-RTK
Q905	8-729-046-80	TRANSISTOR	2SC4634LS-CB11
Q906	8-729-026-49	TRANSISTOR	2SA1037AK-T146-R
Q907	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX

RESISTOR

R401	1-249-380-11	CARBON	0.82	5%	1/4W
R402	1-215-867-00	METAL OXIDE	470	5%	1W
R403	1-214-796-00	METAL	1.5	1%	1/2W
R404	1-215-449-00	METAL	15K	1%	1/4W
R405	1-214-796-00	METAL	1.5	1%	1/2W
R406	1-215-451-00	METAL	18K	1%	1/4W
R407	1-216-675-91	METAL CHIP	10K	0.50%	1/10W
R408	1-216-699-11	METAL CHIP	100K	0.50%	1/10W
R409	1-216-679-11	METAL CHIP	15K	0.50%	1/10W
R410	1-216-681-11	METAL CHIP	18K	0.50%	1/10W
R501	1-216-049-00	METAL CHIP	1K	5%	1/10W
R502	1-216-025-00	METAL CHIP	100	5%	1/10W
R503	1-216-033-00	METAL CHIP	220	5%	1/10W
R504	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R505	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R506	1-249-393-11	CARBON	10	5%	1/4W
R507	1-249-433-11	CARBON	22K	5%	1/4W
R508	1-215-861-00	METAL OXIDE	47	5%	1W
R509	1-249-377-11	CARBON	0.47	5%	1/4W
R510	1-219-726-11	METAL	2.2	5%	10W
R511	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R512	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R513	1-216-423-11	METAL OXIDE	27	5%	1W
R514	1-249-397-11	CARBON	22	5%	1/4W
R515	1-249-425-11	CARBON	4.7K	5%	1/4W
R516	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R517	1-216-691-11	METAL CHIP	47K	0.50%	1/10W
R518	1-216-033-00	METAL CHIP	220	5%	1/10W
R519	1-216-039-00	METAL CHIP	330	5%	1/10W
R520	1-216-033-00	METAL CHIP	220	5%	1/10W
R521	1-247-807-31	CARBON	100	5%	1/4W
R522	1-216-049-00	METAL CHIP	1K	5%	1/10W
R523	1-216-685-11	METAL CHIP	27K	0.50%	1/10W
R524	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R525	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W
R526	1-216-691-11	METAL CHIP	47K	0.50%	1/10W
R527	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R528	1-215-453-00	METAL	22K	1%	1/4W
R530	1-216-662-11	METAL CHIP	3K	0.50%	1/10W
R531	1-216-661-11	METAL CHIP	2.7K	0.50%	1/10W
R532	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R533	1-216-681-11	METAL CHIP	18K	0.50%	1/10W
R534	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R536	1-215-863-11	METAL OXIDE	100	5%	1W
R537	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R541	1-216-691-11	METAL CHIP	47K	0.50%	1/10W
R542	1-214-842-11	METAL	120	1%	1/2W
R545	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R546	1-215-890-11	METAL OXIDE	470	5%	2W
R547	1-215-387-00	METAL	39	1%	1/4W
R548	1-260-316-51	CARBON	100	5%	1/2W
R549	1-260-312-11	CARBON	47	5%	1/2W
R550	1-249-437-11	CARBON	47K	5%	1/4W
R552	1-249-437-11	CARBON	47K	5%	1/4W
R553	1-249-437-11	CARBON	47K	5%	1/4W
R555	1-249-437-11	CARBON	47K	5%	1/4W
R557	1-249-437-11	CARBON	47K	5%	1/4W
R559	1-249-437-11	CARBON	47K	5%	1/4W
R561	1-249-437-11	CARBON	47K	5%	1/4W
R563	1-216-025-00	METAL CHIP	100	5%	1/10W
R564	1-216-049-00	METAL CHIP	1K	5%	1/10W
R565	1-216-025-00	METAL CHIP	100	5%	1/10W
R566	1-216-025-00	METAL CHIP	100	5%	1/10W
R567	1-216-025-00	METAL CHIP	100	5%	1/10W
R568	1-216-025-00	METAL CHIP	100	5%	1/10W
R570	1-214-842-11	METAL	120	1%	1/2W
R571	1-214-842-11	METAL	120	1%	1/2W
R572	1-216-025-00	METAL CHIP	100	5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
R573	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R574	1-216-295-00	SHORT CHIP		1/8W	
R575	1-216-041-00	METAL CHIP	470	5%	1/10W
R577	1-163-009-91	CERAMIC CHIP	0.001µF	10%	50V
R578	1-216-049-00	METAL CHIP	1K	5%	1/10W
R579	1-216-049-00	METAL CHIP	1K	5%	1/10W
R580	1-249-413-11	CARBON	470	5%	1/4W
R581	1-249-437-11	CARBON	47K	5%	1/4W
R583	1-216-025-00	METAL CHIP	100	5%	1/10W
R584	1-215-909-11	METAL OXIDE	47	5%	3W
R585	1-216-381-11	METAL OXIDE	0.22	5%	3W
R586	1-215-909-11	METAL OXIDE	47	5%	3W
R588	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R589	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R590	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R591	1-249-425-11	CARBON	4.7K	5%	1/4W
R592	1-249-425-11	CARBON	4.7K	5%	1/4W
R593	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R594	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R596	1-247-807-31	CARBON	100	5%	1/4W
R598	1-216-665-11	METAL CHIP	3.9K	0.50%	1/10W
R599	1-216-699-91	METAL CHIP	100K	0.50%	1/10W
R601	1-220-825-11	METAL	330K	5%	1/2W
R610	1-217-152-00	METAL	0.33	10%	2W
R611	1-217-153-00	METAL	0.47	10%	2W
R612	1-247-807-31	CARBON	100	5%	1/4W
R614	1-247-807-31	CARBON	100	5%	1/4W
R615	1-249-427-11	CARBON	6.8K	5%	1/4W
R617	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R618	1-216-049-00	METAL CHIP	1K	5%	1/10W
R620	1-202-933-61	FUSIBLE	0.1	10%	1/2W
R629	1-216-679-11	METAL CHIP	15K	0.50%	1/10W
R630	1-249-381-11	CARBON	1	5%	1/4W
R631	1-216-349-00	METAL OXIDE	1	5%	1W
R632	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R633	1-249-406-11	CARBON	120	5%	1/4W
R634	1-249-417-11	CARBON	1K	5%	1/4W
R635	1-260-135-11	CARBON	1M	5%	1/2W
R636	1-260-135-11	CARBON	1M	5%	1/2W
R637	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W
R638	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R639	1-249-419-11	CARBON	1.5K	5%	1/4W

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R640	1-249-420-11	CARBON	1.8K	5%	1/4W
R641	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R642	1-216-001-00	METAL CHIP	10	5%	1/10W
R643	1-243-979-71	METAL OXIDE	0.1	5%	2W
R645	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R646	1-216-001-00	METAL CHIP	10	5%	1/10W
R647	1-219-512-11	METAL	2.2M	5%	1/2W
R651	1-215-421-00	METAL	1K	1%	1/4W
R652	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R653	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W
R654	1-216-017-00	METAL CHIP	47	5%	1/10W
R655	1-216-049-00	METAL CHIP	1K	5%	1/10W
R656	1-216-025-00	METAL CHIP	100	5%	1/10W
R660	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R661	1-216-295-00	SHORT CHIP		1/8W	
R665	1-249-421-11	CARBON	2.2K	5%	1/4W
R670	1-216-679-11	METAL CHIP	15K	0.50%	1/10W
R671	1-216-675-91	METAL CHIP	10K	0.50%	1/10W
R675	1-219-512-11	METAL	2.2M	5%	1/2W
R676	1-218-756-11	METAL CHIP	150K	0.50%	1/10W
R686	1-216-033-00	METAL CHIP	220	5%	1/10W
R687	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R691	1-244-160-91	METAL	36K	0.50%	1/4W
R692	1-244-160-91	METAL	36K	0.50%	1/4W
R693	1-244-160-91	METAL	36K	0.50%	1/4W
R694	1-243-985-91	METAL	33K	0.50%	1/4W
R696	1-260-092-11	CARBON	270	5%	1/2W
R698	1-216-679-11	METAL CHIP	15K	0.50%	1/10W
R699	1-216-647-11	METAL CHIP	680	0.50%	1/10W
R700	1-216-095-00	METAL CHIP	82K	5%	1/10W
R701	1-249-385-11	CARBON	2.2	5%	1/4W
R702	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R703	1-249-385-11	CARBON	2.2	5%	1/4W
R704	1-216-049-00	METAL CHIP	1K	5%	1/10W
R706	1-215-887-00	METAL OXIDE	150	5%	2W
R707	1-249-440-11	CARBON	82K	5%	1/4W
R709	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R710	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W
R711	1-216-674-11	METAL CHIP	9.1K	0.50%	1/10W
R712	1-249-425-11	CARBON	4.7K	5%	1/4W
R713	1-215-887-00	METAL OXIDE	150	5%	2W
R716	1-249-385-11	CARBON	2.2	5%	1/4W
R717	1-249-385-11	CARBON	2.2	5%	1/4W

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
R718	1-215-866-11	METAL OXIDE	330	5%	1W
R719	1-216-373-11	METAL OXIDE	2.2	5%	2W
R721	1-216-675-91	METAL CHIP	10K	0.50%	1/10W
R722	1-215-866-11	METAL OXIDE	330	5%	1W
R724	1-216-675-91	METAL CHIP	10K	0.50%	1/10W
R725	1-216-373-11	METAL OXIDE	2.2	5%	2W
R726	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W
R727	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W
R728	1-216-675-91	METAL CHIP	10K	0.50%	1/10W
R729	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W
R731	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R732	1-249-383-11	CARBON	1.5	5%	1/4W
R733	1-215-859-00	METAL OXIDE	22	5%	1W
R734	1-215-865-11	METAL OXIDE	220	5%	1W
R735	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R737	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R738	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W
R739	1-249-434-11	CARBON	27K	5%	1/4W
R740	1-216-691-11	METAL CHIP	47K	0.50%	1/10W
R741	1-216-049-00	METAL CHIP	1K	5%	1/10W
R742	1-216-668-11	METAL CHIP	5.1K	0.50%	1/10W
R743	1-216-039-00	METAL CHIP	330	5%	1/10W
R744	1-249-413-11	CARBON	470	5%	1/4W
R745	1-249-389-11	CARBON	4.7	5%	1/4W
R746	1-249-389-11	CARBON	4.7	5%	1/4W
R747	1-215-881-11	METAL OXIDE	15	5%	2W
R748	1-219-510-11	METAL	470K	5%	1/2W
R749	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R753	1-249-393-11	CARBON	10	5%	1/4W
R754	1-216-675-91	METAL CHIP	10K	0.50%	1/10W
R755	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W
R756	1-249-421-11	CARBON	2.2K	5%	1/4W
R757	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R758	1-249-385-11	CARBON	2.2	5%	1/4W
R759	1-249-385-11	CARBON	2.2	5%	1/4W
R760	1-216-695-11	METAL CHIP	68K	0.50%	1/10W
R901	1-216-699-11	METAL CHIP	100K	0.50%	1/10W
R902	1-216-691-11	METAL CHIP	47K	0.50%	1/10W
R903	1-218-758-11	METAL CHIP	180K	0.50%	1/10W
R904	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R905	1-216-049-00	METAL CHIP	1K	5%	1/10W
R907	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R908	1-249-429-11	CARBON	10K	5%	1/4W
R909	1-219-727-11	METAL	68	5%	10W
R911	1-249-401-11	CARBON	47	5%	1/4W
R912	1-216-049-00	METAL CHIP	1K	5%	1/10W
R914	1-216-041-00	METAL CHIP	470	5%	1/10W
R915	1-249-397-11	CARBON	22	5%	1/4W
R916	1-249-401-11	CARBON	47	5%	1/4W
R917	1-249-385-11	CARBON	2.2	5%	1/4W
R918	1-214-935-00	METAL	820K	1%	1/2W
R919	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R920	1-216-693-11	METAL CHIP	56K	0.50%	1/10W
R921	1-249-425-11	CARBON	4.7K	5%	1/4W
R923	1-215-467-00	METAL	82K	1%	1/4W
R924	1-216-675-91	METAL CHIP	10K	0.50%	1/10W
R925	1-218-762-11	METAL CHIP	270K	0.50%	1/10W
R926	1-216-685-11	METAL CHIP	27K	0.50%	1/10W
R927	1-219-748-11	METAL	4.7K	5%	1/2W
R928	1-220-825-11	METAL	330K	5%	1/2W
R929	1-216-691-11	METAL CHIP	47K	0.50%	1/10W
R931	1-219-748-11	METAL	4.7K	5%	1/2W
R932	1-216-665-11	METAL CHIP	3.9K	0.50%	1/10W
R933	1-216-661-11	METAL CHIP	2.7K	0.50%	1/10W
R934	1-260-300-11	CARBON	4.7	5%	1/2W
R935	1-215-433-00	METAL	3.3K	1%	1/4W
R936	1-219-398-51	METAL	2.2M	5%	1W
R937	1-216-049-00	METAL CHIP	1K	5%	1/10W
R938	1-216-111-00	METAL CHIP	390K	5%	1/10W
R939	1-216-095-00	METAL CHIP	82K	5%	1/10W
R940	1-218-764-11	METAL CHIP	330K	0.50%	1/10W
R941	1-219-621-91	METAL	22M	10%	1/4W
R942	1-218-776-11	METAL CHIP	1M	0.50%	1/10W
R943	1-216-699-11	METAL CHIP	100K	0.50%	1/10W
R944	1-216-049-00	METAL CHIP	1K	5%	1/10W
R945	1-216-025-00	METAL CHIP	100	5%	1/10W
R946	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R950	1-216-049-00	METAL CHIP	1K	5%	1/10W
R951	1-216-699-11	METAL CHIP	100K	0.50%	1/10W
R952	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R953	1-216-129-00	METAL CHIP	2.2M	5%	1/10W
R954	1-218-179-11	METAL CHIP	10M	5%	1/10W
R955	1-218-179-11	METAL CHIP	10M	5%	1/10W

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

A component identified by this ⋈ symbol indicates that it has been carefully factory-selected to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

D DA

	REF. NO.	PART NO.	DESCRIPTION	VALUES
		VARIABLE RESISTOR		
⋈	RV901	1-241-767-21	RES, ADJ, CERMET	100K
		RELAY		
⚠	RY602	1-755-318-11	RELAY, POWER	
⚠	RY603	1-755-067-21	RELAY	
		SWITCH		
	S501	1-692-465-11	SWITCH, SLIDE	
⚠	S601	1-771-727-11	SWITCH, AC POWER PUSH	
		SPARK GAP		
⚠	SG601	1-533-982-21	GAP, SPARK	
	SG901	1-517-499-21	GAP, SPARK	
	SG902	1-519-422-11	GAP, SPARK	
	SG903	1-519-422-11	GAP, SPARK	
		TRANSFORMER		
	T501	1-435-188-11	TRANSFORMER, FERRITE (HDT)	
	T503	1-435-140-21	TRANSFORMER, FERRITE (LCT)	
	T504	1-433-946-21	TRANSFORMER, FERRITE (HST)	
⚠	T601	1-429-180-11	TRANSFORMER, LINE FILTER	
⚠	T620	1-435-748-31	TRANSFORMER, CONVERTER (PIT)	
⚠	T630	1-435-751-31	TRANSFORMER, CONVERTER (SRT)	
	T701	1-435-142-31	TRANSFORMER, FERRITE (DFT)	
⚠	T901	1-451-382-11	FBT ASSY	NX-4702/KQ
⚠	T902	1-419-345-31	INDUCTOR	500µH
		THERMISTOR		
	TH401	1-807-925-11	THERMISTOR	
	TH601	1-809-260-11	THERMISTOR, POWER	
	THP602	1-809-827-11	THERMISTOR, POSITIVE	
		VARISTOR		
	VDR601	1-803-918-11	VARISTOR	(TNR14V621K660)
	VDR602	1-810-622-11	VARISTOR	

DA

REF. NO.	PART NO.	DESCRIPTION	VALUES		
*	A-1333-007-A	DA BOARD, MOUNTED			
	CAPACITOR				
C1101	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1102	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1103	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1104	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1105	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1108	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1109	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1110	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1111	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1112	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1113	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1114	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V
C1115	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1116	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1117	1-163-019-00	CERAMIC CHIP	0.0068µF	10%	50V
C1118	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1119	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1120	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C1121	1-163-019-00	CERAMIC CHIP	0.0068µF	10%	50V
C1122	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1123	1-163-809-11	CERAMIC CHIP	0.047µF	10%	25V
C1124	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C1125	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1126	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1127	1-125-838-11	CERAMIC CHIP	2.2µF	10%	6.3V
C1128	1-126-246-11	ELECT CHIP	220µF	20%	4V
C1129	1-163-007-11	CERAMIC CHIP	680pF	10%	50V
C1130	1-164-492-11	CERAMIC CHIP	0.15µF	10%	16V
C1131	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1132	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1133	1-126-246-11	ELECT CHIP	220µF	20%	4V
C1137	1-126-205-11	ELECT CHIP	47µF	20%	6.3V
C1138	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C1139	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1140	1-163-251-11	CERAMIC CHIP	100pF	5%	50V

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
	DIODE				
D1104	8-719-027-76	DIODE	1SS357-TPH3		
D1105	8-719-067-40	DIODE	STZ6.8N-T146		
D1106	8-719-067-40	DIODE	STZ6.8N-T146		
D1107	8-719-067-40	DIODE	STZ6.8N-T146		
	FERRITE BEAD				
FB1101	1-543-963-22	FERRITE	0µH		
	IC				
IC1101	8-759-697-78	IC	CXD9563Q		
IC1102	8-759-701-01	IC	NJM2904M		
	RESISTOR				
R1101	1-216-025-00	METAL CHIP	100	5%	1/10W
R1102	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1103	1-216-025-00	METAL CHIP	100	5%	1/10W
R1106	1-216-691-11	METAL CHIP	47K	0.50%	1/10W
R1108	1-216-669-11	METAL CHIP	5.6K	0.50%	1/10W
R1109	1-216-669-11	METAL CHIP	5.6K	0.50%	1/10W
R1110	1-216-675-91	METAL CHIP	10K	0.50%	1/10W
R1111	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W
R1112	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R1113	1-216-665-11	METAL CHIP	3.9K	0.50%	1/10W
R1114	1-216-049-00	METAL CHIP	1K	5%	1/10W
R1115	1-216-691-11	METAL CHIP	47K	0.50%	1/10W
R1116	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R1118	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R1119	1-216-049-00	METAL CHIP	1K	5%	1/10W
R1122	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R1123	1-216-656-11	METAL CHIP	1.6K	0.50%	1/10W
R1124	1-216-643-11	METAL CHIP	470	0.50%	1/10W
R1125	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R1126	1-216-642-11	METAL CHIP	430	0.50%	1/10W
R1127	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R1128	1-218-760-11	METAL CHIP	220K	0.50%	1/10W
R1129	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R1131	1-216-025-00	METAL CHIP	100	5%	1/10W
R1132	1-216-025-00	METAL CHIP	100	5%	1/10W
R1133	1-218-776-11	METAL CHIP	1M	0.50%	1/10W
R1134	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R1135	1-218-776-11	METAL CHIP	1M	0.50%	1/10W
R1136	1-216-049-00	METAL CHIP	1K	5%	1/10W
R1137	1-218-758-11	METAL CHIP	180K	0.50%	1/10W
R1139	1-216-691-11	METAL CHIP	47K	0.50%	1/10W
R1141	1-216-025-00	METAL CHIP	100	5%	1/10W
R1142	1-216-295-91	SHORT CHIP			
	RESISTOR BRIDGE				
RB1101	1-233-576-11	RES, CHIP NETWORK	100		
RB1102	1-233-412-11	RES, CHIP NETWORK	1.0K (3216)		
RB1103	1-233-412-11	RES, CHIP NETWORK	1.0K (3216)		
RB1104	1-233-576-11	RES, CHIP NETWORK	100		
RB1105	1-233-576-11	RES, CHIP NETWORK	100		
RB1106	1-233-412-11	RES, CHIP NETWORK	1.0K (3216)		

N

*	**A-1391-095-A**	**N BOARD, MOUNTED**			
	CAPACITOR				
	C1001	1-163-021-91	CERAMIC CHIP	0.01µF	10% 50V
	C1002	1-163-021-91	CERAMIC CHIP	0.01µF	10% 50V
	C1004	1-163-021-91	CERAMIC CHIP	0.01µF	10% 50V
	C1005	1-163-021-91	CERAMIC CHIP	0.01µF	10% 50V
	C1014	1-126-205-11	ELECT CHIP	47µF	20% 6.3V
	C1015	1-163-021-91	CERAMIC CHIP	0.01µF	10% 50V
	C1016	1-163-021-91	CERAMIC CHIP	0.01µF	10% 50V
	C1017	1-163-021-91	CERAMIC CHIP	0.01µF	10% 50V
	C1018	1-163-220-11	CERAMIC CHIP	3pF	0.25pF 50V
	C1019	1-163-235-11	CERAMIC CHIP	22pF	5% 50V
	C1020	1-126-206-11	ELECT CHIP	100µF	20% 6.3V
	C1021	1-163-021-91	CERAMIC CHIP	0.01µF	10% 50V
	C1022	1-163-021-91	CERAMIC CHIP	0.01µF	10% 50V
	C1023	1-163-021-91	CERAMIC CHIP	0.01µF	10% 50V
	C1027	1-163-021-91	CERAMIC CHIP	0.01µF	10% 50V
	C1028	1-164-004-11	CERAMIC CHIP	0.1µF	10% 25V
	C1029	1-163-021-91	CERAMIC CHIP	0.01µF	10% 50V
	C1030	1-163-021-91	CERAMIC CHIP	0.01µF	10% 50V
	CONNECTOR				
*	CN1003	1-564-521-11	PLUG, CONNECTOR	6P	
	DIODE				
	D1001	8-719-404-50	DIODE	MA111-TX	

N L2

REF. NO.	PART NO.	DESCRIPTION	VALUES		
	FERRITE BEAD				
FB1001	1-543-963-22	FERRITE	0µH		
FB1005	1-216-295-00	SHORT CHIP			1/8W
	IC				
IC1001	6-800-272-01	IC	TMP91CW18F-2C36(Z)		
IC1002	8-759-420-77	IC	PST574CMT-T1		
IC1003	8-759-641-86	IC	BR24C16F-E2		
	TRANSISTOR				
Q1001	8-729-029-06	TRANSISTOR	DTC124EUA-T106		
	RESISTOR				
R1001	1-216-125-00	METAL CHIP	1.5M	5%	1/10W
R1003	1-216-025-00	METAL CHIP	100	5%	1/10W
R1004	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R1005	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R1006	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R1008	1-216-025-00	METAL CHIP	100	5%	1/10W
R1009	1-216-025-00	METAL CHIP	100	5%	1/10W
R1010	1-216-049-00	METAL CHIP	1K	5%	1/10W
R1011	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R1012	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R1014	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R1015	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R1016	1-216-025-00	METAL CHIP	100	5%	1/10W
R1017	1-216-049-00	METAL CHIP	1K	5%	1/10W
R1018	1-216-017-00	METAL CHIP	47	5%	1/10W
R1019	1-216-017-00	METAL CHIP	47	5%	1/10W
R1020	1-216-017-00	METAL CHIP	47	5%	1/10W
R1021	1-216-017-00	METAL CHIP	47	5%	1/10W
R1022	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R1023	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R1040	1-216-025-00	METAL CHIP	100	5%	1/10W
R1041	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R1042	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R1043	1-218-776-11	METAL CHIP	1M	0.50%	1/10W
R1044	1-218-776-11	METAL CHIP	1M	0.50%	1/10W
	RESISTOR BRIDGE				
RB1001	1-233-576-11	RES, CHIP NETWORK	100		
RB1002	1-233-576-11	RES, CHIP NETWORK	100		
RB1003	1-233-576-11	RES, CHIP NETWORK	100		
RB1004	1-233-576-11	RES, CHIP NETWORK	100		
RB1005	1-233-576-11	RES, CHIP NETWORK	100		
RB1006	1-233-576-11	RES, CHIP NETWORK	100		
RB1007	1-233-576-11	RES, CHIP NETWORK	100		
RB1009	1-233-576-11	RES, CHIP NETWORK	100		
	CRYSTAL				
X1001	1-795-044-21	VIBRATOR, CRYSTAL			

L2

* **A-1391-119-A L2 BOARD, MOUNTED**

	CAPACITOR					
	C1600	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
	C1604	1-163-003-11	CERAMIC CHIP	330pF	10%	50V
	C1605	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
	C1606	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
	C1607	1-163-003-11	CERAMIC CHIP	330pF	10%	50V
	C1608	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
	C1611	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
	C1613	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
	C1614	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
	C1617	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
	C1618	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
	C1619	1-163-038-91	CERAMIC CHIP	0.1µF		25V
	C1621	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
	C1622	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
	C1623	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
	C1627	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
	C1628	1-126-947-11	ELECT	47µF	20%	35V
	C1629	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
	C1632	1-126-947-11	ELECT	47µF	20%	35V
	C1633	1-126-791-11	ELECT	10µF	20%	35V
	C1637	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
	C1638	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
	C1639	1-126-947-11	ELECT	47µF	20%	35V
	C1640	1-126-947-11	ELECT	47µF	20%	35V
	CONNECTOR					
	CN1600	1-564-505-11	PLUG, CONNECTOR	2P		
*	CN1601	1-564-507-11	PLUG, CONNECTOR	4P		
*	CN1602	1-564-511-11	PLUG, CONNECTOR	8P		
	FERRITE BEAD					
	FB1600	1-412-911-11	FERRITE	0µH		
	FB1601	1-412-911-11	FERRITE	0µH		

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
FB1602	1-412-911-11	FERRITE	0µH		
FB1603	1-412-911-11	FERRITE	0µH		
FB1604	1-412-911-11	FERRITE	0µH		
	IC				
IC1600	8-759-822-38	IC	LA6510		
IC1601	8-759-822-38	IC	LA6510		
IC1602	8-759-426-18	IC	MB88141pF-ER		
IC1603	8-759-803-42	IC	LA6500-FA		
IC1604	8-759-822-38	IC	LA6510		
IC1605	8-759-711-59	IC	NJM78L05UA-TE1		
	RESISTOR				
R1600	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R1601	1-216-308-00	METAL CHIP	4.7	5%	1/10W
R1603	1-216-308-00	METAL CHIP	4.7	5%	1/10W
R1604	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R1605	1-215-859-00	METAL OXIDE	22	5%	1W
R1607	1-215-859-00	METAL OXIDE	22	5%	1W
R1608	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W
R1609	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R1610	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W
R1611	1-215-859-00	METAL OXIDE	22	5%	1W
R1613	1-216-308-00	METAL CHIP	4.7	5%	1/10W
R1617	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R1621	1-216-308-00	METAL CHIP	4.7	5%	1/10W
R1624	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R1625	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R1626	1-215-859-00	METAL OXIDE	22	5%	1W
R1628	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R1629	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R1630	1-215-859-00	METAL OXIDE	22	5%	1W
R1631	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R1634	1-216-308-00	METAL CHIP	4.7	5%	1/10W
R1635	1-216-679-11	METAL CHIP	15K	0.50%	1/10W
R1636	1-215-859-00	METAL OXIDE	22	5%	1W
R1640	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R1641	1-216-681-11	METAL CHIP	18K	0.50%	1/10W
R1643	1-216-308-00	METAL CHIP	4.7	5%	1/10W
R1644	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R1647	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R1648	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R1649	1-215-859-00	METAL OXIDE	22	5%	1W
R1650	1-249-382-11	CARBON	1.2	5%	1/4W
R1651	1-249-382-11	CARBON	1.2	5%	1/4W
R1652	1-249-382-11	CARBON	1.2	5%	1/4W
R1653	1-249-382-11	CARBON	1.2	5%	1/4W
R1654	1-216-025-00	METAL CHIP	100	5%	1/10W
R1655	1-216-025-00	METAL CHIP	100	5%	1/10W

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*	**A-1299-419-A**	**A1 BOARD, COMPLETE**			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
	CAPACITOR				
C001	1-162-318-11	CERAMIC	0.001µF	10%	500V
C004	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C005	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C007	1-164-489-11	CERAMIC CHIP	0.22µF	10%	16V
C009	1-126-960-11	ELECT	1µF	20%	50V
C010	1-126-947-11	ELECT	47µF	20%	35V
C011	1-106-220-00	MYLAR	0.1µF	10%	100V
C012	1-164-489-11	CERAMIC CHIP	0.22µF	10%	16V
C014	1-107-930-91	ELECT	22µF	20%	100V
C015	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C016	1-128-528-11	ELECT	470µF	20%	25V
C017	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C018	1-107-649-11	ELECT	2.2µF	20%	250V
C019	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C021	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C022	1-126-947-11	ELECT	47µF	20%	35V
C023	1-164-489-11	CERAMIC CHIP	0.22µF	10%	16V
C024	1-107-909-11	ELECT	47µF	20%	50V
C025	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C026	1-163-227-11	CERAMIC CHIP	10pF	0.50pF	50V
C027	1-126-785-11	ELECT	47µF	20%	10V
C029	1-164-489-11	CERAMIC CHIP	0.22µF	10%	16V
C031	1-162-318-11	CERAMIC	0.001µF	10%	500V
C032	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C033	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C035	1-104-574-11	CERAMIC	0.0047µF	10%	2KV
C036	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C037	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C038	1-163-017-00	CERAMIC CHIP	0.0047µF	10%	50V
C039	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
C040	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C042	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C043	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C045	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C046	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C048	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C049	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C050	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C051	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C053	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C054	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C055	1-163-235-11	CERAMIC CHIP	22pF	5%	50V
C057	1-126-947-11	ELECT	47µF	20%	35V
C058	1-163-224-11	CERAMIC CHIP	7pF	0.25pF	50V
C059	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C061	1-163-255-11	CERAMIC CHIP	150pF	5%	50V
C062	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C063	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C064	1-126-382-11	ELECT	100µF	20%	16V
C065	1-107-882-91	ELECT	100µF	20%	16V
C090	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C091	1-126-960-11	ELECT	1µF	20%	50V
C092	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C101	1-163-233-91	CERAMIC CHIP	18pF	5%	50V
C105	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C106	1-137-857-21	MYLAR	0.47µF	10%	250V
C108	1-164-489-11	CERAMIC CHIP	0.22µF	10%	16V
C109	1-126-947-11	ELECT	47µF	20%	35V
C111	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C120	1-126-947-11	ELECT	47µF	20%	35V
C123	1-136-189-00	MYLAR	0.1µF	10%	250V
C130	1-164-489-11	CERAMIC CHIP	0.22µF	10%	16V
C152	1-126-947-11	ELECT	47µF	20%	35V
C201	1-163-233-91	CERAMIC CHIP	18pF	5%	50V
C205	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C206	1-137-857-21	MYLAR	0.47µF	10%	250V
C208	1-164-489-11	CERAMIC CHIP	0.22µF	10%	16V
C211	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C220	1-126-947-11	ELECT	47µF	20%	35V
C223	1-136-189-00	MYLAR	0.1µF	10%	250V
C230	1-164-489-11	CERAMIC CHIP	0.22µF	10%	16V
C252	1-126-947-11	ELECT	47µF	20%	35V
C301	1-163-231-11	CERAMIC CHIP	15pF	5%	50V

REF. NO.	PART NO.	DESCRIPTION	VALUES		
C305	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C306	1-137-857-21	MYLAR	0.47µF	10%	250V
C308	1-164-489-11	CERAMIC CHIP	0.22µF	10%	16V
C311	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C319	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C320	1-126-947-11	ELECT	47µF	20%	35V
C323	1-136-189-00	MYLAR	0.1µF	10%	250V
C330	1-164-489-11	CERAMIC CHIP	0.22µF	10%	16V
C352	1-126-947-11	ELECT	47µF	20%	35V

CONNECTOR

CN303	1-695-915-11	TAB (CONTACT)		
CN307	1-794-991-11	CONNECTOR, D SUB		
CN309	1-794-991-11	CONNECTOR, D SUB		
* CN315	1-778-682-11	PIN, CONNECTOR (PC BOARD)	8P	
CN318	1-764-101-11	PIN, CONNECTOR (PC BOARD)	2P	

DIODE

D001	8-719-801-78	DIODE	1SS184
D002	8-719-109-89	DIODE	RD5.6ESB2
D003	8-719-109-89	DIODE	RD5.6ESB2
D004	8-719-062-51	DIODE	1PS226-115
D005	8-719-062-51	DIODE	1PS226-115
D006	8-719-801-78	DIODE	1SS184
D007	8-719-109-89	DIODE	RD5.6ESB2
D008	8-719-109-89	DIODE	RD5.6ESB2
D009	8-719-109-89	DIODE	RD5.6ESB2
D010	8-719-109-89	DIODE	RD5.6ESB2
D011	8-719-109-89	DIODE	RD5.6ESB2
D012	8-719-062-51	DIODE	1PS226-115
D013	8-719-911-19	DIODE	1SS119-25
D014	8-719-911-19	DIODE	1SS119-25
D016	8-719-109-89	DIODE	RD5.6ESB2
D019	8-719-062-51	DIODE	1PS226-115
D101	8-719-062-51	DIODE	1PS226-115
D104	8-719-052-12	DIODE	1SS376TE-17
D105	8-719-052-12	DIODE	1SS376TE-17
D106	8-719-970-83	DIODE	HSS82-TJ
D108	8-719-066-10	DIODE	1PS181-115
D111	8-719-062-51	DIODE	1PS226-115
D201	8-719-062-51	DIODE	1PS226-115
D204	8-719-052-12	DIODE	1SS376TE-17
D205	8-719-052-12	DIODE	1SS376TE-17
D206	8-719-970-83	DIODE	HSS82-TJ
D208	8-719-066-10	DIODE	1PS181-115

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

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REF. NO.	PART NO.	DESCRIPTION	VALUES
D211	8-719-062-51	DIODE	1PS226-115
D301	8-719-062-51	DIODE	1PS226-115
D304	8-719-052-12	DIODE	1SS376TE-17
D305	8-719-052-12	DIODE	1SS376TE-17
D306	8-719-970-83	DIODE	HSS82-TJ
D308	8-719-066-10	DIODE	1PS181-115
D311	8-719-062-51	DIODE	1PS226-115
	FERRITE BEAD		
FB002	1-216-295-00	SHORT CHIP	1/8W
FB003	1-412-911-11	FERRITE	0µH
FB004	1-412-911-11	FERRITE	0µH
FB005	1-412-911-11	FERRITE	0µH
FB006	1-216-295-00	SHORT CHIP	1/8W
FB007	1-216-295-00	SHORT CHIP	1/8W
FB008	1-216-295-00	SHORT CHIP	1/8W
FB009	1-414-231-22	FERRITE	0µH
FB102	1-469-965-21	INDUCTOR	0µH
FB103	1-469-965-21	INDUCTOR	0µH
FB104	1-412-911-11	FERRITE	0µH
FB110	1-412-911-11	FERRITE	0µH
FB202	1-469-965-21	INDUCTOR	0µH
FB203	1-469-965-21	INDUCTOR	0µH
FB210	1-412-911-11	FERRITE	0µH
FB302	1-469-965-21	INDUCTOR	0µH
FB303	1-469-965-21	INDUCTOR	0µH
FB310	1-412-911-11	FERRITE	0µH
	IC		
IC001	6-700-496-01	IC	M61314SP
IC002	8-759-824-97	IC	LM2412T/JL860089
IC003	8-759-681-38	IC	CXD9548MTR
IC004	8-749-019-91	IC	H8D3104
IC005	8-759-058-60	IC	TC7SU04FU(TE85R)
IC006	8-759-491-32	IC	TC74VHCT04AF(EL)
IC007	8-759-640-39	IC	BR24C02F-WE2
IC008	8-759-680-71	IC	MM1470AD
IC009	8-759-640-39	IC	BR24C02F-WE2
IC011	8-759-592-79	IC	BA00AST-V5
	JACK		
⚠ J001	1-451-524-11	SOCKET, CRT	

REF. NO.	PART NO.	DESCRIPTION	VALUES
	CHIP CONDUCTOR		
JR001	1-216-296-00	SHORT CHIP	1/4W
JR002	1-216-296-00	SHORT CHIP	1/4W
JR005	1-216-296-00	SHORT CHIP	1/4W
JR007	1-216-295-00	SHORT CHIP	1/8W
JR008	1-216-296-00	SHORT CHIP	1/4W
JR009	1-216-296-00	SHORT CHIP	1/4W
JR010	1-216-296-00	SHORT CHIP	1/4W
JR011	1-216-296-00	SHORT CHIP	1/4W
JR012	1-216-296-00	SHORT CHIP	1/4W
JR013	1-216-296-00	SHORT CHIP	1/4W
JR014	1-216-296-00	SHORT CHIP	1/4W
JR015	1-216-295-00	SHORT CHIP	1/8W
JR016	1-216-296-00	SHORT CHIP	1/4W
JR017	1-216-296-00	SHORT CHIP	1/4W
JR019	1-216-296-00	SHORT CHIP	1/4W
JR020	1-216-296-00	SHORT CHIP	1/4W
JR021	1-216-296-00	SHORT CHIP	1/4W
JR022	1-216-295-00	SHORT CHIP	1/8W
JR023	1-216-295-00	SHORT CHIP	1/8W
JR024	1-216-296-00	SHORT CHIP	1/4W
JR025	1-216-296-00	SHORT CHIP	1/4W
JR026	1-216-295-00	SHORT CHIP	1/8W
JR027	1-216-296-00	SHORT CHIP	1/4W
JR028	1-216-296-00	SHORT CHIP	1/4W
JR029	1-216-295-00	SHORT CHIP	1/8W
JR030	1-216-296-00	SHORT CHIP	1/4W
	COIL		
L001	1-412-537-31	INDUCTOR	100µH
L002	1-412-549-31	INDUCTOR	1MH
L003	1-412-537-31	INDUCTOR	100µH
L004	1-412-529-11	INDUCTOR	22µH
L005	1-412-537-31	INDUCTOR	100µH
L006	1-412-537-31	INDUCTOR	100µH
L007	1-412-537-31	INDUCTOR	100µH
	PIN		
* PIN301	4-042-408-01	PIN, COATING LEAD	
	TRANSISTOR		
Q001	8-729-025-28	TRANSISTOR	2SK1828
Q002	8-729-025-28	TRANSISTOR	2SK1828

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
Q004	8-729-025-28	TRANSISTOR	2SK1828		
Q005	8-729-025-28	TRANSISTOR	2SK1828		
Q101	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q201	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q301	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
	RESISTOR				
R001	1-216-679-11	METAL CHIP	15K	0.50%	1/10W
R002	1-216-679-11	METAL CHIP	15K	0.50%	1/10W
R003	1-216-025-00	METAL CHIP	100	5%	1/10W
R006	1-260-316-51	CARBON	100	5%	1/2W
R007	1-216-025-00	METAL CHIP	100	5%	1/10W
R008	1-216-025-00	METAL CHIP	100	5%	1/10W
R010	1-216-025-00	METAL CHIP	100	5%	1/10W
R011	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R012	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R013	1-216-025-00	METAL CHIP	100	5%	1/10W
R014	1-260-316-51	CARBON	100	5%	1/2W
R015	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R016	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R017	1-216-025-00	METAL CHIP	100	5%	1/10W
R018	1-216-025-00	METAL CHIP	100	5%	1/10W
R019	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W
R020	1-216-025-00	METAL CHIP	100	5%	1/10W
R021	1-216-025-00	METAL CHIP	100	5%	1/10W
R022	1-216-295-00	SHORT CHIP		1/8W	
R023	1-216-049-00	METAL CHIP	1K	5%	1/10W
R024	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R025	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R027	1-216-017-00	METAL CHIP	47	5%	1/10W
R028	1-216-017-00	METAL CHIP	47	5%	1/10W
R030	1-216-295-00	SHORT CHIP		1/8W	
R031	1-216-679-11	METAL CHIP	15K	0.50%	1/10W
R032	1-260-316-51	CARBON	100	5%	1/2W
R033	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R034	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R038	1-216-017-00	METAL CHIP	47	5%	1/10W
R039	1-216-017-00	METAL CHIP	47	5%	1/10W
R040	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R041	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R043	1-216-295-00	SHORT CHIP		1/8W	
R044	1-216-295-00	SHORT CHIP		1/8W	
R046	1-216-295-00	SHORT CHIP		1/8W	
R047	1-216-295-00	SHORT CHIP		1/8W	

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R048	1-216-691-11	METAL CHIP	47K	0.50%	1/10W
R049	1-216-691-11	METAL CHIP	47K	0.50%	1/10W
R051	1-218-776-11	METAL CHIP	1M	0.50%	1/10W
R052	1-259-884-11	CARBON	4.7M	5%	1/4W
R053	1-216-627-11	METAL CHIP	100	0.50%	1/10W
R054	1-260-103-11	CARBON	2.2K	5%	1/2W
R058	1-216-049-00	METAL CHIP	1K	5%	1/10W
R059	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R061	1-249-441-11	CARBON	100K	5%	1/4W
R062	1-247-895-91	CARBON	470K	5%	1/4W
R063	1-247-895-91	CARBON	470K	5%	1/4W
R064	1-260-127-11	CARBON	220K	5%	1/2W
R077	1-216-679-11	METAL CHIP	15K	0.50%	1/10W
R078	1-216-668-11	METAL CHIP	5.1K	0.50%	1/10W
R079	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R080	1-216-661-11	METAL CHIP	2.7K	0.50%	1/10W
R082	1-216-367-11	METAL OXIDE	0.68	5%	2W
R092	1-216-679-11	METAL CHIP	15K	0.50%	1/10W
R097	1-216-295-00	SHORT CHIP		1/8W	
R098	1-216-691-11	METAL CHIP	47K	0.50%	1/10W
R101	1-215-395-00	METAL	82	1%	1/4W
R104	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R106	1-249-436-11	CARBON	39K	5%	1/4W
R107	1-216-687-11	METAL CHIP	33K	0.50%	1/10W
R108	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R109	1-218-776-11	METAL CHIP	1M	0.50%	1/10W
R110	1-216-039-00	METAL CHIP	330	5%	1/10W
R111	1-249-402-11	CARBON	56	5%	1/4W
R115	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R117	1-216-013-00	METAL CHIP	33	5%	1/10W
R118	1-216-013-00	METAL CHIP	22	5%	1/10W
R119	1-218-768-11	METAL CHIP	470K	0.50%	1/10W
R120	1-218-768-11	METAL CHIP	470K	0.50%	1/10W
R121	1-218-768-11	METAL CHIP	470K	0.50%	1/10W
R122	1-218-776-11	METAL CHIP	1M	0.50%	1/10W
R123	1-249-416-11	CARBON	820	5%	1/4W
R130	1-249-399-11	CARBON	33	5%	1/4W
R133	1-469-965-21	INDUCTOR	0µH		
R140	1-249-399-11	CARBON	33	5%	1/4W
R151	1-219-742-11	METAL	47	5%	1/2W
R161	1-215-395-00	METAL	82	1%	1/4W
R163	1-216-025-00	METAL CHIP	100	5%	1/10W
R164	1-218-754-11	METAL CHIP	120K	0.50%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
R201	1-215-395-00	METAL	82	1%	1/4W
R204	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R206	1-249-436-11	CARBON	39K	5%	1/4W
R207	1-216-687-11	METAL CHIP	33K	0.50%	1/10W
R208	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R209	1-218-776-11	METAL CHIP	1M	0.50%	1/10W
R210	1-216-045-00	METAL CHIP	680	5%	1/10W
R211	1-249-403-11	CARBON	68	5%	1/4W
R215	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R217	1-216-013-00	METAL CHIP	33	5%	1/10W
R218	1-216-017-00	METAL CHIP	47	5%	1/10W
R219	1-218-768-11	METAL CHIP	470K	0.50%	1/10W
R220	1-218-768-11	METAL CHIP	470K	0.50%	1/10W
R221	1-218-768-11	METAL CHIP	470K	0.50%	1/10W
R222	1-218-776-11	METAL CHIP	1M	0.50%	1/10W
R223	1-249-416-11	CARBON	820	5%	1/4W
R230	1-249-399-11	CARBON	33	5%	1/4W
R233	1-469-965-21	INDUCTOR	0µH		
R240	1-249-399-11	CARBON	33	5%	1/4W
R251	1-219-742-11	METAL	47	5%	1/2W
R261	1-215-395-00	METAL	82	1%	1/4W
R263	1-216-025-00	METAL CHIP	100	5%	1/10W
R264	1-218-754-11	METAL CHIP	120K	0.50%	1/10W
R301	1-215-395-00	METAL	82	1%	1/4W
R304	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R306	1-249-436-11	CARBON	39K	5%	1/4W
R307	1-216-687-11	METAL CHIP	33K	0.50%	1/10W
R308	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R309	1-218-776-11	METAL CHIP	1M	0.50%	1/10W
R310	1-216-039-00	METAL CHIP	330	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R311	1-249-402-11	CARBON	56	5%	1/4W
R315	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R317	1-216-013-00	METAL CHIP	33	5%	1/10W
R318	1-216-019-91	RES-CHIP	56	5%	1/10W
R319	1-218-768-11	METAL CHIP	470K	0.50%	1/10W
R320	1-218-768-11	METAL CHIP	470K	0.50%	1/10W
R321	1-218-768-11	METAL CHIP	470K	0.50%	1/10W
R322	1-218-776-11	METAL CHIP	1M	0.50%	1/10W
R323	1-249-416-11	CARBON	820	5%	1/4W
R330	1-249-399-11	CARBON	33	5%	1/4W
R333	1-469-965-21	INDUCTOR	0µH		
R340	1-249-399-11	CARBON	33	5%	1/4W
R351	1-219-742-11	METAL	47	5%	1/2W
R361	1-215-395-00	METAL	82	1%	1/4W
R363	1-216-025-00	METAL CHIP	100	5%	1/10W
R364	1-218-754-11	METAL CHIP	120K	0.50%	1/10W

SPARK GAP

SG001	1-519-422-11	GAP, SPARK
SG002	1-519-421-11	GAP, DISCHARGE
SG101	1-519-421-11	GAP, DISCHARGE
SG201	1-519-421-11	GAP, DISCHARGE
SG301	1-519-421-11	GAP, DISCHARGE

CRYSTAL

X001	1-760-682-21	VIBRATOR, CRYSTAL

Sony Corporation
Sony Technology Center
Technical Services
Service Promotion Department

English
2002LJ74WEB-1
Printed in USA
© 2002.12

9-978-999-01

SONY

4-094-173-11(1)

Color Reference System

Quick Setup Guide GB

Guide de démarrage rapide FR

Guía de inicio rápido ES

Kurzanleitung DE

GDM-C520

Color Reference System
Quick Start Guide

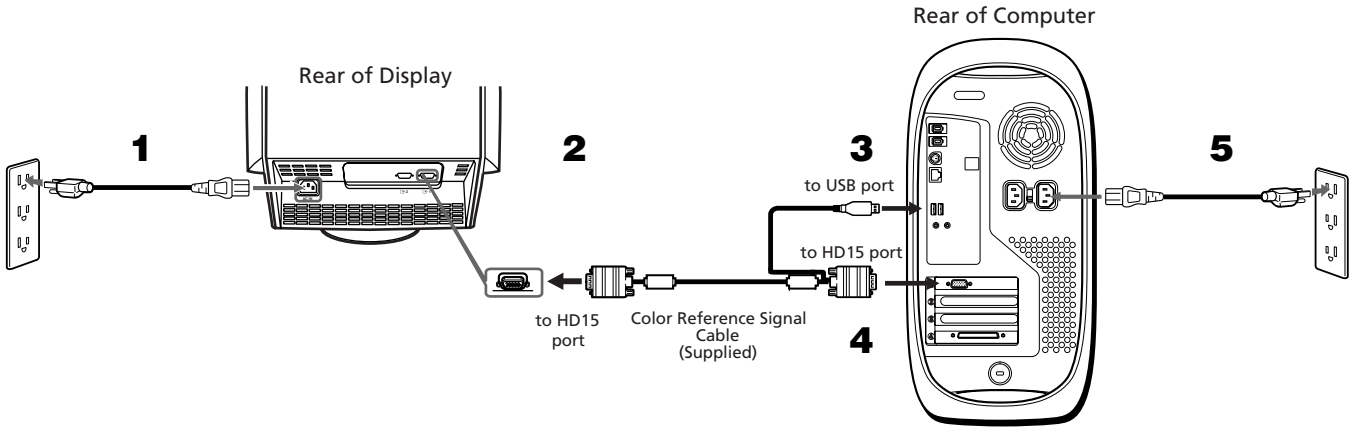
Safety Instructions

Observe the following safety instructions when connecting and using your display:

- ❑ Be sure that your display is electrically rated to operate with the AC power available in your location.
- ❑ Locate your display near an easily accessible electrical outlet.
- ❑ Place your display on a solid surface and treat it carefully. The screen can be damaged if dropped, sharply hit, or touched with a sharp or abrasive implement.
- ❑ Place your display in a cool location with low humidity and a minimum of dust.
- ❑ Do not use your display if the power cable has been damaged. Do not allow anything to rest on the power cable, and keep the cable away from where people can trip over it.
- ❑ Do not insert anything metallic into the display openings. Doing so may cause electric shock.
- ❑ To avoid electric shock, do not touch the inside of the display. Only a qualified technician should open the display's case.
- ❑ Hold the plug, not the cable, when disconnecting the display from an electrical outlet.
- ❑ Openings in the display cabinet are provided for ventilation. To prevent overheating, these openings should not be blocked or covered. Also, avoid using the display on a bed, sofa, rug, or other soft surface. Doing so may block the ventilation openings on the bottom of the cabinet. If you put the display in a bookcase or other enclosed space, be sure to provide adequate ventilation.
- ❑ Do not expose the display to rain or use it near water. If the display accidentally gets wet, unplug it and contact an authorized dealer immediately. You can clean the exterior of the display with a damp cloth when necessary, but be sure to unplug the display first.
- ❑ If your display does not operate normally in particular, if there are any unusual sounds or smells coming from it unplug the display immediately and contact an authorized dealer or service center.

GB

Connecting your Color Reference Display to your Computer



Note: Before connecting your GDM-C520 display, turn off your computer and unplug its power cable.

1 Connect the GDM-C520 display's power cord to the display, and plug the cord into a nearby outlet.
Press the power button on the front of the display to verify that the display powers up; then, press the power button again to power down the display before moving to Step 2.

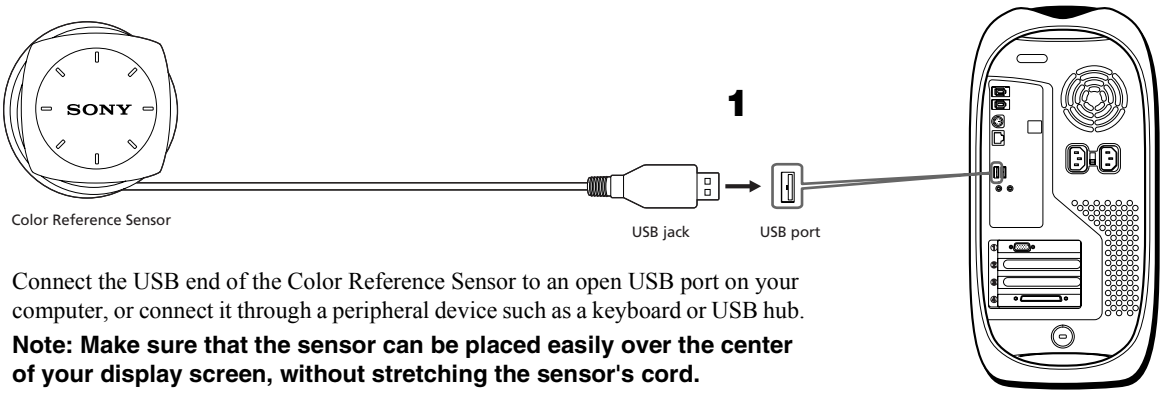
2 Connect the HD15 connector located on the Color Reference Signal Cable to an HD15 port on the rear of the display.

3 Connect and secure the USB connector on the other end of the Color Reference Signal Cable to a USB port on the back of your computer.

4 Connect the other HD15 connector to the HD15 port on the back of your computer.

5 Plug your computer's power cable back into an electrical outlet.
Turn on your display and computer. If the display does not show an image, refer to the troubleshooting section of this guide.

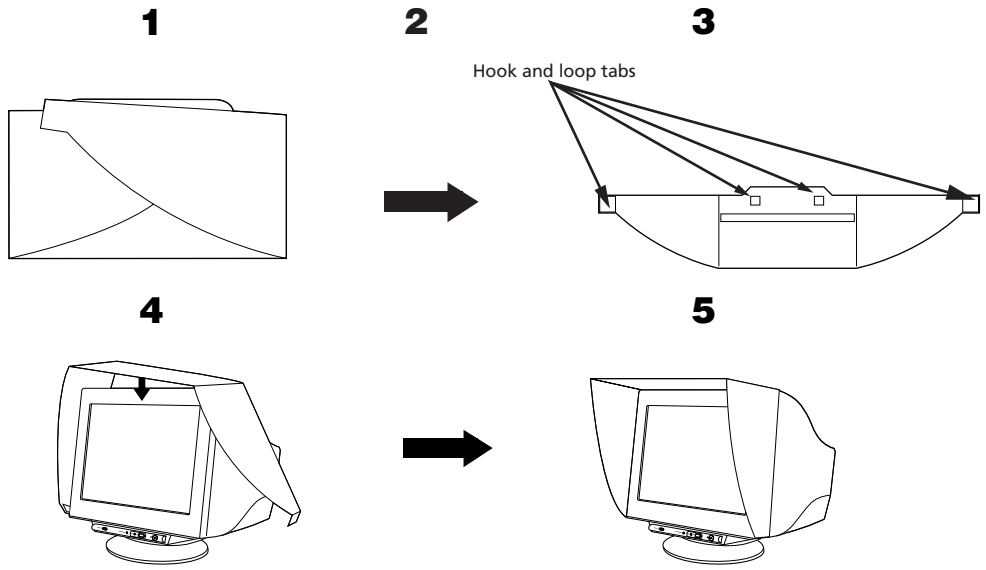
Connecting the Color Reference Sensor to your Computer



1 Connect the USB end of the Color Reference Sensor to an open USB port on your computer, or connect it through a peripheral device such as a keyboard or USB hub.

Note: Make sure that the sensor can be placed easily over the center of your display screen, without stretching the sensor's cord.

Attaching the Display Hood to your GDM-C520 Display



1 Unfold the hood.

2 Attach the hook and loop pads to the underside of the display hood, as shown above.

3 Remove the liners protecting the adhesive on each hook and loop tab.

4 Wrap the hood around the display. Make sure that the hood is evenly aligned.

5 Fold the adhesive tabs inward the display, pressing firmly to ensure proper adhesion of the tabs to the underside of the display.

Troubleshooting Tips

Display Has No Power

If the display power indicator is off and no image appears on the display, check the following:

- ❑ Ensure that the power cable is fully inserted into both the display's power port and a working electrical outlet.
- ❑ Test the electrical outlet by plugging in a working electrical device, such as a lamp.
- ❑ Press the power button, hold down, and wait for the power indicator to light.
- ❑ Try another power cable on the display. Use the computer's power cable and turn on the display with the signal cable disconnected. If the display is working correctly, a self-test pattern appears.

No Image Is Shown on the Display

If the display power indicator is on but no image appears on the display, check the following:

- ❑ Ensure that the video connector is seated properly. Tighten the connector screws securely with your fingers.
- ❑ Ensure that the computer is on.
- ❑ Increase contrast and brightness controls.
- ❑ Turn off the display and unplug the Color Reference Signal Cable. Check the cable connector for bent or broken parts.
- ❑ With the signal cable still disconnected, turn on the display. If the display is working correctly, a self-test pattern appears.
- ❑ Perform a display reset or recall.

Installing the Color Reference Software

Macintosh

1 Locate and insert the Color Reference CD into your computer's CD-ROM drive.

2 Double-click on the Color Reference icon that appears on your computer's desktop.

3 Double-click on the "Color Reference Installer" icon.

4 Follow the screen prompts for software installation.

5 Restart your computer.

Windows

1 Before installing the software, disconnect the USB connection between the Color Reference Signal Cable and the display. Also, disconnect the Color Reference Sensor's USB connection. If this is not done, the software will not install correctly.

2 Locate and insert the Color Reference CD into your computer's CD-ROM drive.

3 Click on the "My Computer" icon located on your desktop.

4 Locate and double-click on the icon for the CD-ROM drive in which you put the Color Reference CD.

5 Follow the screen prompts for software installation.

6 Reconnect the Color Reference Signal Cable's USB connector and the Color Reference Sensor's USB connector to your computer.

7 Follow the on-screen prompts to install the drivers for the signal cable and Sensor.

Note: If prompted for the location of the Color Reference drivers, use Windows' "Browse" function to open the CD-ROM drive in which the Color Reference CD is located.

8 Restart your computer.

Calibrating Your Color Reference System

Preparing Your System for Calibration

1 Make sure that your color settings are set to "millions" or at least 16-bit color.

2 Make sure your display is set to "Professional" mode. To do this, press the "Picture Effect" button on the front of your GDM-C520 display until the on-screen display shows the text "Professional".

3 Warm your display up by leaving the display on and displaying a relatively bright screen (over 50% white) for at least an hour before calibration.

4 Make sure that the Color Reference Sensor is connected to one of your computer's USB ports.

5 Lower the light in the room to under 64 lux. Ideally, the ambient light level should be approximately 16 lux.

Calibrating Your System

1 Double-click on the Color Reference icon to start the application. The main screen will appear.

2 Choose a target colorspace from the "Target Colorspace" dropdown menu. Choose from the following three options:

Print RGB D50: Standard colorspace for U.S. prepress and printing professionals.
Print RGB D65: Standard colorspace for European prepress and printing professionals.
Web RGB (sRGB): Standard colorspace for output limited to computer displays, TV, and video.

3 Click the "Calibrate" button.

4 Center the Color Reference Sensor over the target in the middle of the screen, using the hash marks on the screen and sensor to guide this process.

5 Click the "Start" button. Your system will take approximately 10 minutes to fully calibrate.

6 When the calibration is done, a "Calibration Complete" message will appear. Remove the sensor.

7 The new calibration is now active, and is displayed under the "Calibration Data" dropdown menu on the main screen.

Quick Specifications

AC input voltage/current	100 – 240V ~ 50 – 60Hz, 2.0 – 1.0
Operating Temperature	10°C – 35°C
Dimensions	Approx. 19 5/8” x 19 3/4” x 19 1/4” (497 x 499 x 487 mm)
Weight (display only)	Approx. 67.1lbs (30.5kg)
Other accessory items in the package	GDM-C520 Display Powercord Color Reference Signal Cable Color Reference Sensor and protective case Display Hood Hook and loop tabs (for the display hood) Color Reference System CD Quick Setup Guide Warranty card

If you need additional assistance in setting up your display or calibrating your system, please refer to the user's manual, located on your Color Reference System CD. If you still require aid, you can reach Sony at http://www.sony.com/displays/support, or by phone at 1-866-256-9392.

Color Reference System
Guide de démarrage rapide

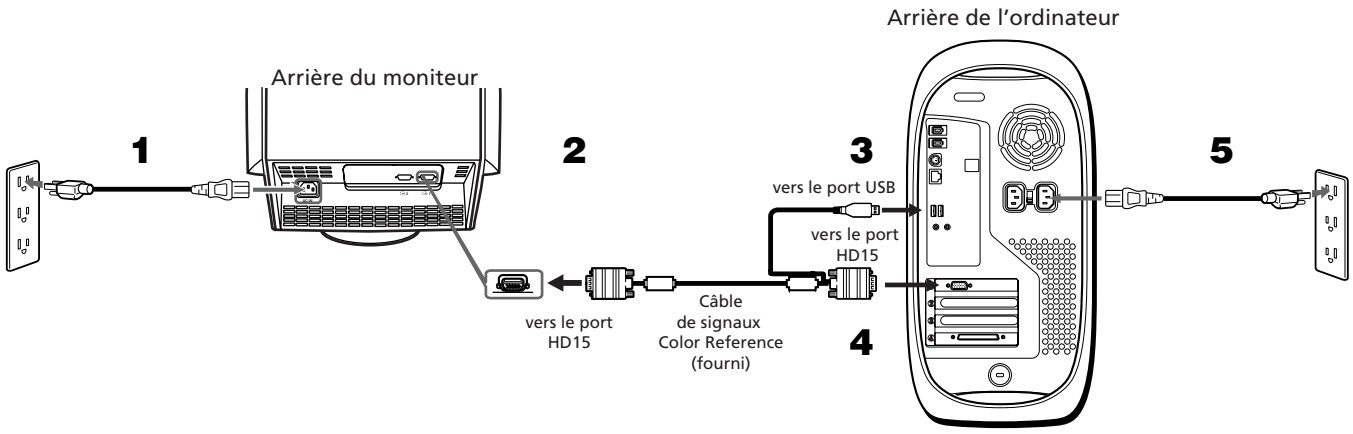
Directives de sécurité

Veuillez observer les directives de sécurité ci-dessous lors du raccordement et de l'utilisation de votre écran:

- ❑ S'assurer que la puissance nominale du moniteur est compatible avec la tension secteur utilisée dans le pays d'utilisation.
- ❑ Placer le moniteur à proximité d'une prise de courant facile d'accès.
- ❑ Placer le moniteur sur une surface résistante et le manipuler avec précaution ; le moniteur peut être endommagé s'il tombe, s'il est soumis à des chocs violents ou s'il est mis en contact avec un objet pointu ou abrasif.
- ❑ Placer le moniteur dans un endroit frais, peu poussiéreux et peu humide.
- ❑ Si le cordon d'alimentation est endommagé, ne pas utiliser le moniteur ; ne rien poser sur le cordon d'alimentation et le placer dans un endroit où personne ne se prendra les pieds dedans.
- ❑ Ne pas insérer d'objets métalliques dans les orifices du moniteur car cela entraînerait un risque d'électrocution.
- ❑ Pour éviter les risques d'électrocution, ne pas toucher l'intérieur du moniteur ; seul un technicien qualifié est habilité à ouvrir le boîtier.
- ❑ Lors du débranchement du moniteur, tirer sur la fiche et non sur le cordon d'alimentation lui-même.
- ❑ Des orifices de ventilation sont présents sur le boîtier du moniteur. Ne pas obstruer ces orifices afin d'éviter qu'une surchauffe ne se produise dans l'appareil. Ne pas utiliser le moniteur sur un lit, un fauteuil, un tapis ou toute autre surface molle. Cela pourrait obstruer les orifices de ventilations situés sous le boîtier de l'appareil. En cas d'installation du moniteur dans une bibliothèque ou autre meuble encastré, veiller à assurer une ventilation adéquate.
- ❑ Ne pas exposer le moniteur à la pluie et ne pas l'utiliser à proximité de l'eau. Si le moniteur est mouillé par accident, le débrancher et contacter immédiatement un revendeur agréé. Il est possible de nettoyer l'extérieur du moniteur avec un chiffon mouillé, mais il faut d'abord le débrancher.
- ❑ En cas de fonctionnement anormal du moniteur, particulièrement s'il émet des odeurs ou des sons anormaux, le débrancher immédiatement et contacter un revendeur ou un centre de service après-vente agréé.

FR

Raccordement de l'écran Color Reference à votre ordinateur



Remarque : Avant de raccorder le moniteur GDM-C520, mettez l'ordinateur hors tension et débranchez le cordon d'alimentation.

1 Raccordez le cordon d'alimentation du moniteur GDM-C520 au moniteur et branchez-le sur une prise de courant proche.
Appuyez sur le bouton d'alimentation situé à l'avant du moniteur pour vérifier que celui-ci se met bien sous tension, puis appuyez de nouveau sur le bouton d'alimentation pour mettre le moniteur hors tension avant de passer à l'étape 2.

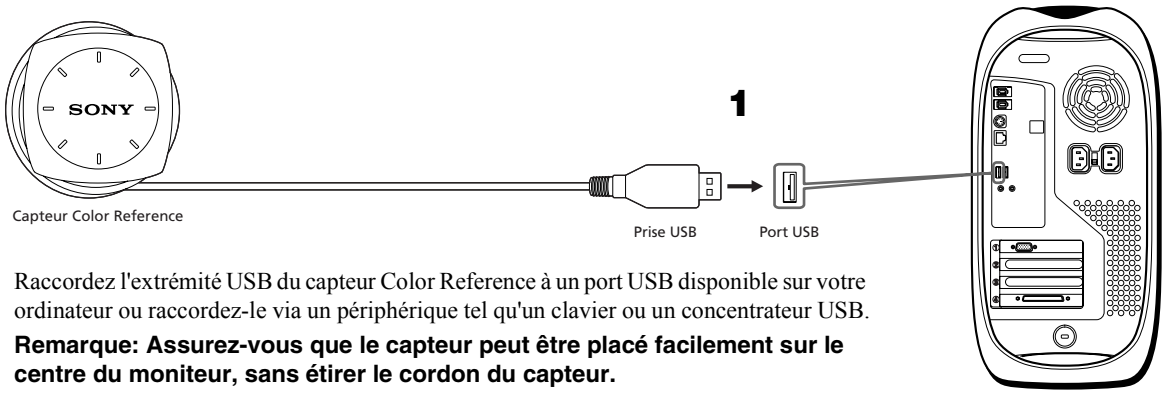
2 Raccordez le connecteur HD15 situé sur le câble de signaux Color Reference à un port HD15 à l'arrière du moniteur.

3 Raccordez solidement le connecteur USB à l'autre extrémité du câble de signaux Color Reference à un port USB situé à l'arrière de votre ordinateur.

4 Branchez l'autre connecteur HD15 au port HD15 situé à l'arrière de votre ordinateur.

5 Rebranchez le câble d'alimentation de l'ordinateur sur une prise secteur.
Mettez le moniteur et l'ordinateur sous tension. Si aucune image ne s'affiche à l'écran, reportez-vous à la section de dépannage de ce guide.

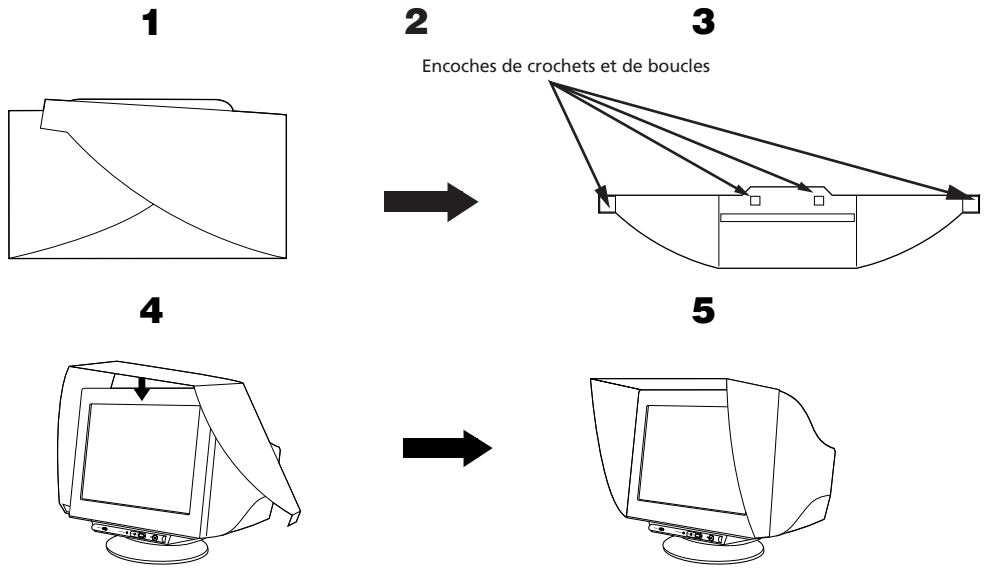
Raccordement du capteur Color Reference à votre ordinateur



1 Raccordez l'extrémité USB du capteur Color Reference à un port USB disponible sur votre ordinateur ou raccordez-le via un périphérique tel qu'un clavier ou un concentrateur USB.

Remarque: Assurez-vous que le capteur peut être placé facilement sur le centre du moniteur, sans étirer le cordon du capteur.

Fixation du protecteur d'écran sur le moniteur GDM-C520



1 Dépliez le protecteur d'écran.

2 Fixez les coussinets de crochets et de boucles sur le côté inférieur du protecteur d'écran, tel qu'indiqué ci-dessus.

3 Retirez les bandes protégeant l'adhésif sur chaque coussinet de crochet et de boucle.

4 Entourez l'écran du moniteur avec le protecteur d'écran. Assurez-vous que le protecteur est bien aligné.

5 Pliez les taquets adhésifs vers l'intérieur de l'écran en appuyant fermement pour que les taquets soient bien collés sur le côté inférieur du moniteur.

Conseils de dépannage

Le moniteur n'est pas alimenté

Si le voyant d'alimentation du moniteur est éteint et qu'aucune image ne s'affiche à l'écran, vérifiez les points suivants:

- ❑ Assurez-vous que le câble d'alimentation est complètement inséré dans le port d'alimentation du moniteur et dans une prise secteur en état de fonctionnement.
- ❑ Testez la prise électrique en y branchant un appareil électrique en état de fonctionnement, tels qu'une lampe.
- ❑ Maintenez la touche d'alimentation enfoncée et patientez jusqu'à ce que le voyant d'alimentation s'allume.
- ❑ Essayez de brancher un autre câble d'alimentation sur le moniteur. Utilisez le câble d'alimentation de l'ordinateur et mettez le moniteur sous tension pendant que le câble de signaux est débranché. Si le moniteur fonctionne correctement, un modèle de test automatique s'affiche.

Aucune image n'apparaît à l'écran

Si le voyant d'alimentation du moniteur est allumé et qu'aucune image ne s'affiche à l'écran, vérifiez les points suivants:

- ❑ Assurez-vous que le connecteur vidéo est correctement branché. Serrez solidement les vis du connecteur avec les doigts.
- ❑ Vérifiez que l'ordinateur est sous tension.
- ❑ Augmentez les commandes de contraste et de luminosité.
- ❑ Eteignez l'écran et débranchez le câble de signaux Color Reference. Vérifier que le connecteur de câble ne présente pas de parties pliées ou brisées.
- ❑ Pendant que le câble de signaux est débranché, mettez le moniteur sous tension. Si le moniteur fonctionne correctement, un modèle de test automatique s'affiche.
- ❑ Réinitialisez l'écran ou affichez les images.

Installation du logiciel Color Reference

Macintosh

1 Insérez le CD Color Reference dans le lecteur de CD-ROM de votre ordinateur.

2 Double-cliquez sur l'icône Color Reference qui s'affiche sur le bureau de votre ordinateur.

3 Double-cliquez sur l'icône "Color Reference Installer".

4 Suivez les invites à l'écran pour l'installation du logiciel.

5 Redémarrez votre ordinateur.

Windows

1 Avant d'installer le logiciel, déconnectez le branchement USB entre le câble de signaux Color Reference et l'écran. Déconnectez également le branchement USB du capteur Color Reference. Sans cela, le logiciel ne sera pas installé correctement.

2 Insérez le CD Color Reference dans le lecteur de CD-ROM de votre ordinateur.

3 Cliquez sur l'icône « Poste de travail » située sur le bureau de votre ordinateur.

4 Double-cliquez sur l'icône du lecteur de CD-ROM dans lequel vous avez placé le CD Color Reference.

5 Suivez les invites à l'écran pour l'installation du logiciel.

6 Rebranchez le connecteur USB du câble de signaux Color Reference et le connecteur USB du capteur Color Reference à votre ordinateur.

7 Suivez les invites à l'écran pour installer les pilotes du câble de signaux et du capteur.

Remarque: Si on vous demande l'emplacement des pilotes Color Reference, utilisez la fonction "Parcourir" de Windows pour atteindre le lecteur de CD-ROM dans lequel se trouve le CD-ROM Color Reference.

8 Redémarrez votre ordinateur.

Calibrage du système Color Reference

Préparation de votre appareil pour le calibrage

1 Assurez-vous que les réglages de couleurs sont réglés sur « millions » ou au moins sur 16 bits couleur.

2 Assurez-vous que l'écran est réglé sur le mode « Professional ». Pour cela, appuyez sur la touche « Picture Effect » à l'avant de votre moniteur GDM-C520 jusqu'à ce que l'affichage à l'écran indique le message « Professional ».

3 Laissez votre moniteur chauffer en laissant l'écran allumé avec une image relativement lumineuse affichée (plus de 50 % de blancs) pendant au moins une heure avant le calibrage.

4 Assurez-vous que le capteur Color Reference est raccordé à l'un des ports USB de votre ordinateur.

5 Abaissez la lumière de la pièce en dessous de 64 lux. Le niveau de luminosité ambiante idéal est d'environ 16 lux.

Calibrage de votre système

1 Double-cliquez sur l'icône Color Reference pour lancer l'application. L'écran principal apparaît.

2 Choisissez un espace de couleur cible à partir du menu déroulant « Target Colorspace ». Choisissez l'une des trois options suivantes:

Print RGB D50: Espace de couleur standard pour les professionnels de la pré-presse et de l'impression aux Etats-Unis.
Print RGB D65: Espace de couleur standard pour les professionnels de la pré-presse et de l'impression en Europe.
Web RGB (sRGB): Espace de couleur standard pour une sortie limitée aux écrans d'ordinateurs, aux téléviseurs et aux appareils vidéo.

3 Cliquez sur le bouton « Calibrate ».

4 Centrez le capteur Color Reference sur la cible au milieu de l'écran, à l'aide des marques de dièse de guidage sur l'écran et du capteur.

5 Cliquez sur le bouton « Start ». Votre système nécessite environ dix minutes pour effectuer la totalité du calibrage.

6 Lorsque le calibrage est terminé, un message "Calibration Complete" s'affiche. Retirez le capteur.

7 Le nouveau calibrage est maintenant actif et est affiché sous le menu déroulant « Calibration Data » sur l'écran principal.

Spécifications principales

Tension/courant CA en entrée.	100 – 240V ~ 50 – 60Hz, 2,0 – 1,0
Température de fonctionnement	10°C – 35°C
Dimensions	Environ 497 x 499 x 487 mm (19 5/8" x 19 3/4" x 19 1/4" po)
Poids (moniteur uniquement)	Environ 30,5 kg (67,1 lb)
Accessoires fournis	Ecran GDM-C520 Cordon d'alimentation Câble de signaux Color Reference Capteur Color Reference et boîtier protecteur Protecteur d'écran Taquets de crochets et de boucles (pour le protecteur d'écran) CD Color Reference System Guide de configuration rapide Carte de garantie

Si vous avez besoin d'une assistance supplémentaire pour la configuration de votre moniteur ou le calibrage de votre système, veuillez vous référer au manuel de l'utilisateur contenu sur le CD Artisan Color Reference System. Si l'aide fournie dans le manuel d'utilisateur contenu sur le CD n'est pas suffisante, vous pouvez contacter Sony via l'URL suivante : http://www.sony.com/displays/support, ou par téléphone au : 1-866-256-9392.

Color Reference System
Guía de inicio rápido

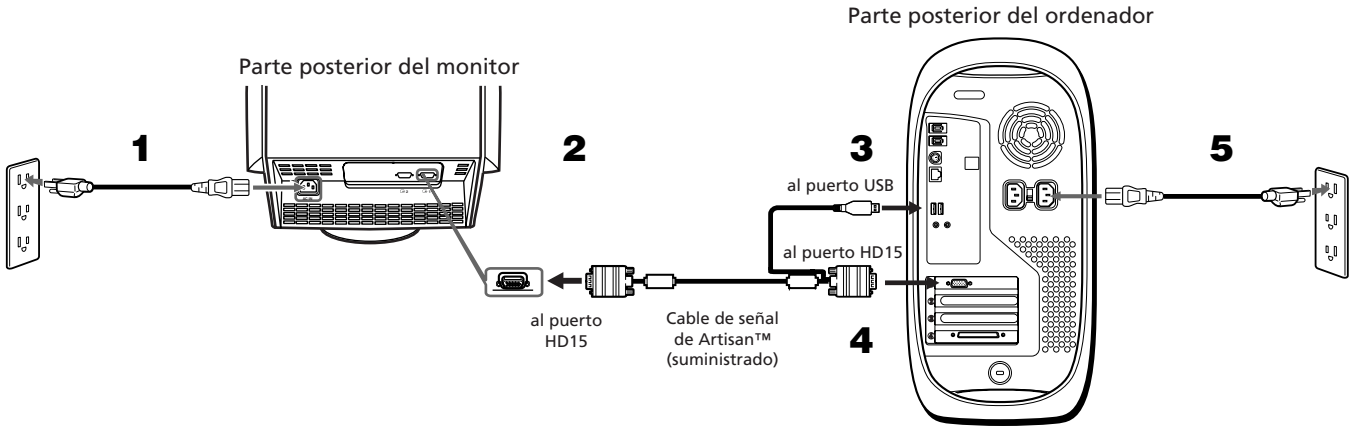
Instrucciones sobre seguridad

Tenga en cuenta las siguientes instrucciones sobre seguridad cuando conecte y utilice el monitor:

- ❑ Asegúrese de que el monitor tenga el voltaje eléctrico adecuado para poder funcionar con la alimentación de CA disponible en su ubicación.
- ❑ Instale el monitor cerca de una toma de corriente de fácil acceso.
- ❑ Coloque el monitor sobre una superficie sólida y manéjelo con cuidado. La pantalla podría dañarse si se cae, golpea o toca con un objeto puntiagudo o abrasivo.
- ❑ Instale el monitor en un lugar fresco, con poca humedad y sin polvo.
- ❑ No utilice el monitor si el cable de alimentación está dañado. No coloque ningún objeto encima de dicho cable y manténgalo en un lugar donde no pueda ser pisado.
- ❑ No introduzca ningún objeto metálico en las ranuras del monitor. Si lo hace, pueden producirse descargas eléctricas.
- ❑ Para evitar el riesgo de descargas eléctricas, no toque el interior del monitor. Si necesita abrir la caja del mismo, solicite los servicios de personal especializado.
- ❑ Cuando desconecte el monitor de la toma de corriente, hágalo agarrando siempre el enchufe y no el cable.
- ❑ Las ranuras del monitor permiten la ventilación del aparato. Para evitar sobrecalentamientos, no bloquee ni cubra dichas ranuras. Además, procure no utilizar el monitor en una cama, sofá, alfombra u otro tipo de superficies blandas. Si lo hace, las ranuras de ventilación de la parte inferior del aparato podrían bloquearse. Si coloca el monitor en una estantería u otro tipo de espacio cerrado, asegúrese de que el aparato esté lo suficientemente ventilado.
- ❑ No exponga el monitor a la lluvia ni lo utilice cerca del agua. Si se mojara por accidente, desenchúfelo y póngase en contacto de inmediato con un distribuidor autorizado. Si lo desea, puede limpiar el exterior del monitor con un paño humedecido, pero para ello asegúrese primero de que el monitor esté desenchufado.
- ❑ Si el monitor no funciona con normalidad, en especial si hace ruidos no habituales o detecta olores que provienen del mismo, desenchúfelo inmediatamente y póngase en contacto con un distribuidor autorizado o un centro de servicio técnico.

Conexión de la pantalla de Color Reference al ordenador

ES



Nota: Antes de conectar el monitor GDM-C520, apague el ordenador y desenchufe el cable de alimentación del mismo.

1 Conecte el cable de alimentación del monitor GDM-C520 a este último y enchufe el cable a una toma de corriente próxima.
Pulse el botón de encendido de la parte frontal del monitor para comprobar que éste se enciende; a continuación, pulse de nuevo el botón de encendido para apagar el monitor antes de proceder con el paso 2.

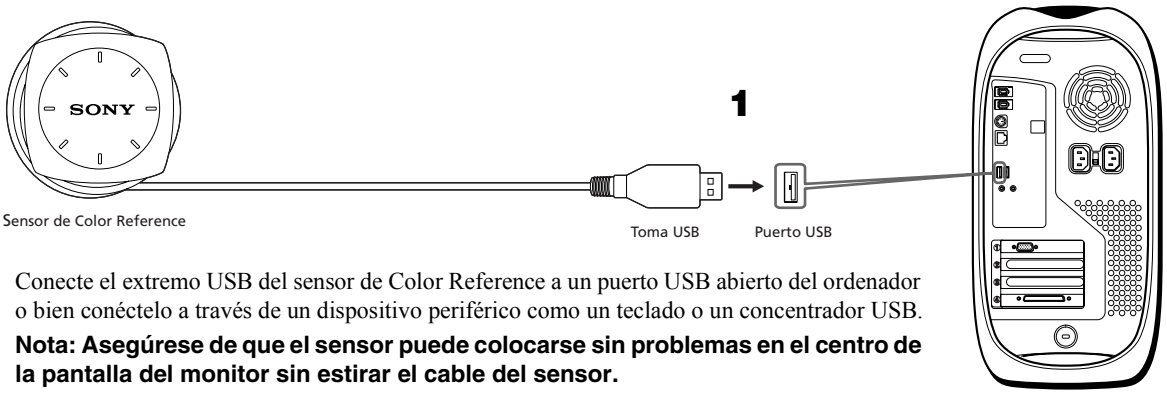
2 Conecte el conector HD15 del cable de señal de Color Reference a un puerto HD15 de la parte posterior del monitor.

3 Conecte con firmeza el conector USB del otro extremo del cable de señal de Color Reference a un puerto USB de la parte posterior del ordenador.

4 Conecte el otro conector HD15 al puerto HD15 de la parte posterior del ordenador.

5 Vuelva a enchufar el cable de alimentación del ordenador a una toma de corriente.
Encienda el monitor y el ordenador. Si el primero no muestra ninguna imagen, consulte la sección de solución de problemas de esta guía.

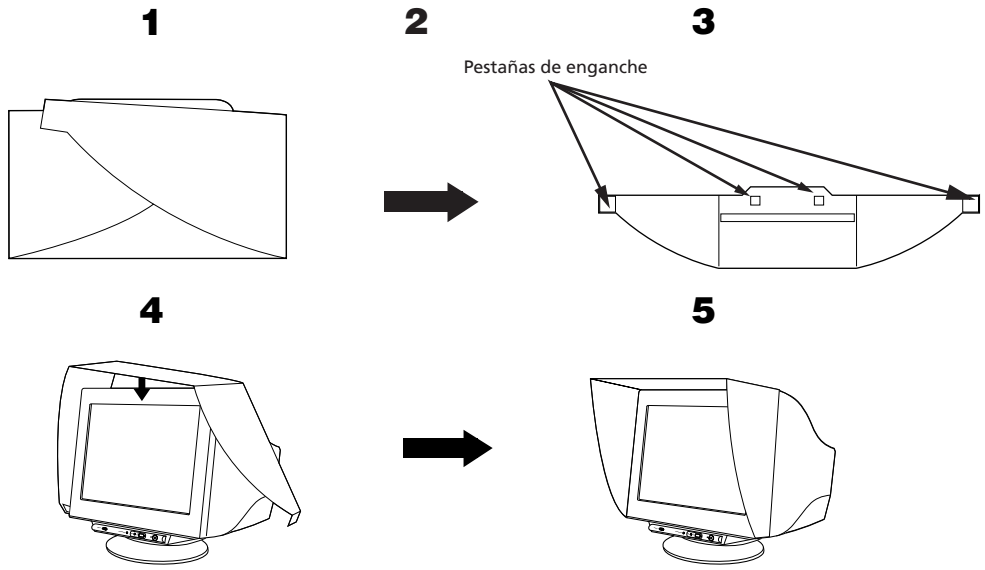
Conexión del sensor de Color Reference al ordenador



1 Conecte el extremo USB del sensor de Color Reference a un puerto USB abierto del ordenador o bien conéctelo a través de un dispositivo periférico como un teclado o un concentrador USB.

Nota: Asegúrese de que el sensor puede colocarse sin problemas en el centro de la pantalla del monitor sin estirar el cable del sensor.

Colocación de la visera en el monitor GDM-C520



1 Despliegue la visera.

2 Coloque las almohadillas de enganche en la parte inferior de la visera, tal y como se muestra arriba.

3 Retire las protecciones de los adhesivos de cada una de las pestañas de enganche.

4 Coloque la visera alrededor del monitor. Asegúrese de que ésta esté correctamente alineada.

5 Doble las pestañas adhesivas hacia el interior del monitor apretando firmemente para asegurarse de que éstas quedan bien enganchadas en la parte inferior del monitor.

Sugerencias para la solución de problemas

El monitor no recibe alimentación

Si el indicador de alimentación del monitor está apagado y no aparece ninguna imagen en la pantalla, compruebe lo siguiente:

- ❑ Asegúrese de que el cable de alimentación está completamente insertado en el puerto de alimentación del monitor y en una toma de corriente que funcione.
- ❑ Compruebe la toma de corriente enchufando un dispositivo eléctrico que funcione, como una lámpara.
- ❑ Pulse el botón de encendido, manténgalo pulsado y espere a que el indicador de alimentación se ilumine.
- ❑ Pruebe a conectar otro cable de alimentación al monitor. Utilice el cable de alimentación del ordenador y encienda el monitor con el cable de señal desconectado. Si el monitor funciona correctamente, aparecerá una imagen de autoprueba.

El monitor no muestra ninguna imagen

Si el indicador de alimentación del monitor está encendido pero no aparece ninguna imagen en la pantalla, compruebe lo siguiente:

- ❑ Asegúrese de que el conector de vídeo esté ajustado correctamente. Apriete firmemente los tornillos del conector con los dedos.
- ❑ Compruebe que el ordenador esté encendido.
- ❑ Aumente los controles de contraste y brillo.
- ❑ Apague el monitor y desconecte el cable de señal de Color Reference. Compruebe que el conector del cable no tenga piezas dobladas o rotas.
- ❑ Con el cable de señal desconectado, encienda el monitor. Si éste funciona correctamente, aparecerá una imagen de autoprueba.
- ❑ Vuelva a ajustar el monitor.

Instalación del software de Color Reference

Macintosh

1 Localice e introduzca el CD de Color Reference en la unidad de CD-ROM del ordenador.

2 Haga doble clic en el icono de Color Reference que aparece en el escritorio del ordenador.

3 Haga doble clic en el icono "Color Reference Installer" (Instalador de Color Reference).

4 Siga las indicaciones que aparecen en pantalla para instalar el software.

5 Reinicie el ordenador.

Windows

1 Antes de instalar el software, desconecte la conexión USB entre el cable de Color Reference y el monitor. También debe desconectar la conexión USB del sensor de Color Reference. Si no lo hace, el software no se instalará correctamente.

2 Localice e introduzca el CD de Color Reference en la unidad de CD-ROM del ordenador.

3 Haga clic en el icono de "Mi PC" del escritorio.

4 Localice y haga doble clic en el icono de la unidad de CD-ROM en la cual ha colocado el CD de Color Reference.

5 Siga las indicaciones que aparecen en pantalla para instalar el software.

6 Vuelva a conectar el conector USB del cable de señal de Color Reference y el conector USB del sensor de Color Reference al ordenador.

7 Siga las indicaciones que aparecen en pantalla para instalar los controladores para el cable de señal de y el sensor.

Nota: En caso de que necesite localizar los controladores de Color Reference, utilice la función “Examinar” de Windows para abrir la unidad de CD-ROM en la cual se encuentra el CD de Color Reference.

8 Reinicie el ordenador.

Calibración del sistema de Color Reference

Preparación del sistema para la calibración

1 Asegúrese de que la configuración de color esté ajustada en "millones" o como mínimo en color de 16 bits.

2 Asegúrese de que el monitor esté ajustado en modo "Professional". Para ello, pulse el botón "Picture Effect" (Efecto de imagen) de la parte frontal del monitor GDM-C520 hasta que la indicación en pantalla muestre el texto "Professional".

3 Caliente el monitor dejándolo encendido y mostrando una imagen relativamente brillante (con más de un 50% de blanco) durante al menos una hora antes de la calibración.

4 Asegúrese de que el sensor de Color Reference está conectado a uno de los puertos USB del ordenador.

5 Baje la iluminación de la sala a menos de 64 lux. En condiciones óptimas, el nivel de iluminación ambiente deberá ser de unos 16 lux.

Calibración del sistema

1 Haga doble clic en el icono de Color Reference para iniciar la aplicación. Aparecerá la pantalla principal.

2 Elija un espacio de color de destino del menú desplegable "Target Colorspace" (Espacio de color de destino). Elija una de las tres opciones siguientes:

Print RGB D50: Espacio de color estándar para profesionales de maquetación e impresión en los Estados Unidos.
Print RGB D65: Espacio de color estándar para profesionales de maquetación e impresión en Europa.
Web RGB (sRGB): Espacio de color estándar para monitores de ordenador, televisores y videograbadoras.

3 Haga clic en el botón "Calibrate" (Calibrar).

4 Centre el sensor de Color Reference sobre el objetivo en el medio de la pantalla, utilizando las marcas de la pantalla y el sensor para guiarse por este proceso.

5 Haga clic en el botón "Start" (Iniciar). El sistema tardará unos 10 minutos en calibrarse totalmente.

6 Cuando haya terminado la calibración, aparece el mensaje "Calibration Complete" (calibración terminada). Retire el sensor de Color Reference.

7 La nueva calibración quedará activada y se mostrará en el menú desplegable "Calibration Data" (Datos de calibración) de la pantalla principal.

Especificaciones rápidas

Corriente/voltaje de entrada de CA	de 100 a 240 V ~ de 50 a 60 Hz, 2,0 – 1,0
Temperatura de funcionamiento	de 10°C a 35°C
Dimensiones	Aproximadamente 497 x 499 x 487 mm
Peso (sólo el monitor)	Aproximadamente 30,5 kg
Otros accesorios del embalaje	Monitor GDM-C520 Cable de alimentación Cable de señal de Color Reference Sensor de Color Reference y caja protectora Visera del monitor Pestañas de enganche (para la visera del monitor) CD del sistema de Color Reference Guía de instalación rápida Tarjeta de garantía

Si necesita ayuda en la instalación del monitor o en la calibración del sistema, consulte el manual del usuario incluido en el CD del sistema de Color Reference. Si a pesar de ello sigue precisando ayuda, póngase en contacto con Sony por teléfono llamando al número 1-866-256-9392 o bien visite la página http://www.sony.com/displays/support.

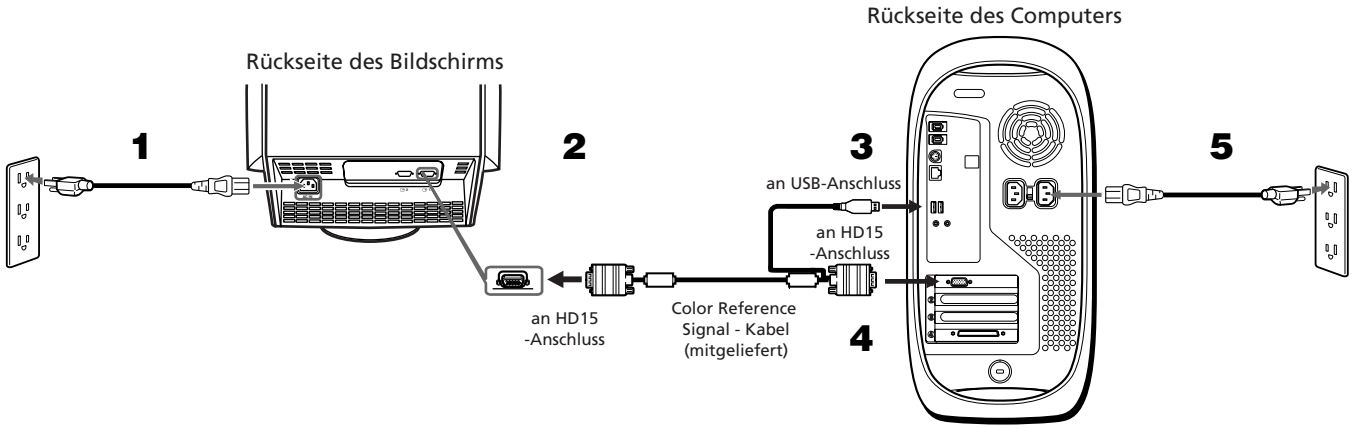
Color Reference System
Kurzanleitung

Sicherheitshinweise

Lesen Sie die folgenden Sicherheitshinweise bitte durch und berücksichtigen Sie sie beim Anschließen und Benutzen des Bildschirms:

- ❑ Überprüfen Sie, ob die elektrischen Spezifikationen des Bildschirms mit dem lokalen Netzstrom übereinstimmen.
- ❑ Stellen Sie den Bildschirm in der Nähe einer leicht zugänglichen Netzsteckdose auf.
- ❑ Stellen Sie den Bildschirm auf eine stabile Oberfläche und behandeln Sie ihn pfleglich. Die Mattscheibe kann beschädigt werden, wenn mit einem scharfen oder kantigen Gegenstand dagegengestoßen oder der Bildschirm fallengelassen wird.
- ❑ Stellen Sie den Bildschirm an einem kühlen Ort mit geringer Luftfeuchtigkeit und möglichst wenig Staub auf.
- ❑ Verwenden Sie den Bildschirm nicht, wenn das Netzkabel beschädigt ist. Stellen Sie nichts auf das Netzkabel und verlegen Sie das Kabel so, dass niemand darüber stolpern kann.
- ❑ Stecken Sie keine Metallgegenstände in die Öffnungen am Bildschirm. Andernfalls besteht das Risiko eines elektrischen Schlags.
- ❑ Um einen elektrischen Schlag zu vermeiden, berühren Sie auf keinen Fall innere Bauteile des Bildschirms. Nur qualifiziertes Fachpersonal darf das Gehäuse des Bildschirms öffnen.
- ❑ Wenn Sie das Netzkabel des Bildschirms von der Netzsteckdose trennen, ziehen Sie immer am Stecker, niemals am Kabel.
- ❑ Die Öffnungen im Bildschirmgehäuse dienen zur Lüftung. Um einen Wärmestau zu vermeiden, dürfen diese Öffnungen nicht blockiert oder abgedeckt werden. Stellen Sie den Bildschirm auch nicht auf ein Bett, ein Sofa, einen Teppich oder eine andere weiche Oberfläche. Andernfalls können die Lüftungsöffnungen an der Unterseite des Gehäuses blockiert werden. Wenn Sie den Bildschirm in ein Regal, einen Einbauschrank o. ä. stellen, sorgen Sie für eine ausreichende Lüftung.
- ❑ Schützen Sie den Bildschirm vor Regen und verwenden Sie ihn nicht in der Nähe von Wasser. Wenn der Bildschirm versehentlich nass wird, ziehen Sie den Stecker aus der Netzsteckdose und wenden Sie sich umgehend an einen autorisierten Händler. Sie können das Gehäuse des Bildschirms gegebenenfalls mit einem feuchten Tuch reinigen, aber ziehen Sie unbedingt zuerst den Netzstecker des Bildschirms aus der Steckdose.
- ❑ Wenn der Bildschirm nicht ordnungsgemäß funktioniert, insbesondere wenn Sie ungewöhnliche Geräusche oder Gerüche daran wahrnehmen, ziehen Sie sofort den Stecker aus der Netzsteckdose und wenden Sie sich an einen autorisierten Händler oder Kundendienst.

Anschließen des Color Reference-Bildschirms an einen Computer



Hinweis: Bevor Sie den Bildschirm GDM-C520 anschließen, schalten Sie den Computer aus und ziehen den Netzstecker aus der Steckdose.

1 Schließen Sie das Netzkabel des Bildschirms GDM-C520 an den Bildschirm an und stecken Sie den Stecker des Netzkabels in eine Steckdose in der Nähe.
Drücken Sie die Netztaste an der Vorderseite des Bildschirms und vergewissern Sie sich, dass sich der Bildschirm einschaltet. Drücken Sie dann erneut die Netztaste, um den Bildschirm wieder auszuschalten, bevor Sie mit Schritt 2 fortfahren.

2 Schließen Sie den HD15-Stecker am Color Reference-Signalkabel an einen HD15-Anschluss an der Rückseite des Bildschirms an.

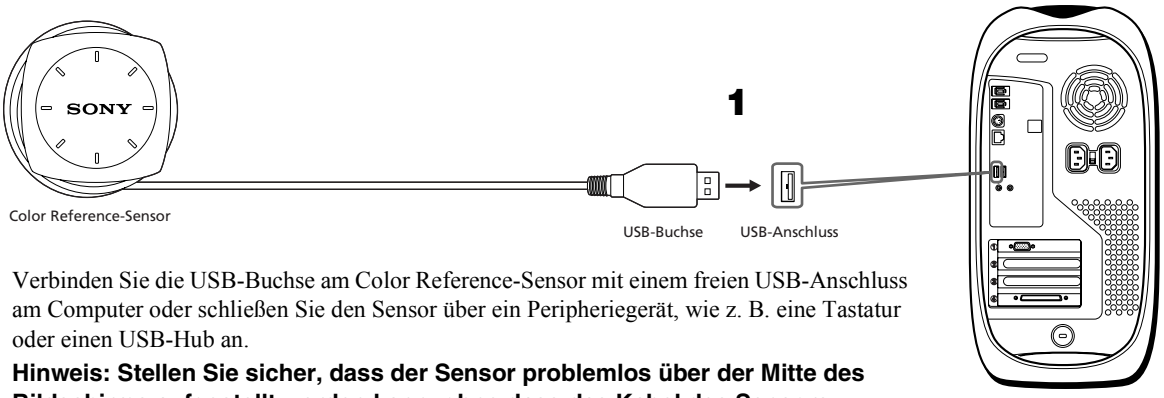
3 Schließen Sie den USB-Stecker am anderen Ende des Color Reference-Signalkabels an einen USB-Anschluss an der Rückseite des Computers an und sichern Sie ihn.

4 Schließen Sie den anderen HD15-Stecker an den HD15-Anschluss an der Rückseite des Computers an.

5 Stecken Sie den Netzstecker des Computers wieder in eine Netzsteckdose.
Schalten Sie Bildschirm und Computer ein. Wenn auf dem Bildschirm kein Bild angezeigt wird, schlagen Sie bitte im Abschnitt zur Störungsbehebung in dieser Anleitung nach.

DE

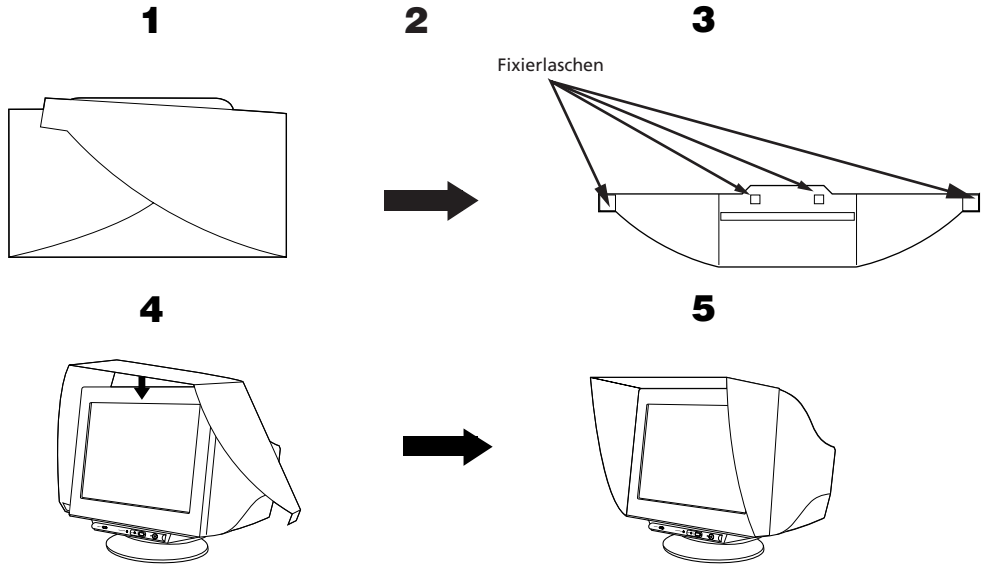
Anschließen des Color Reference-Sensors an einen Computer



1 Verbinden Sie die USB-Buchse am Color Reference-Sensor mit einem freien USB-Anschluss am Computer oder schließen Sie den Sensor über ein Peripheriegerät, wie z. B. eine Tastatur oder einen USB-Hub an.

Hinweis: Stellen Sie sicher, dass der Sensor problemlos über der Mitte des Bildschirms aufgestellt werden kann, ohne dass das Kabel des Sensors gespannt wird.

Anbringen der Bildschirmhaube am Bildschirm GDM-C520



1 Falten Sie die Haube auseinander.

2 Bringen Sie die Fixierlaschen wie in der Abbildung oben dargestellt an der Unterseite der Bildschirmhaube an.

3 Nehmen Sie die Schutzfolien an den Fixierlaschen ab.

4 Legen Sie die Haube um den Bildschirm. Vergewissern Sie sich, dass die Haube ordnungsgemäß ausgerichtet ist.

5 Falten Sie die Fixierlaschen nach innen zum Bildschirm hin und drücken Sie sie fest an, damit die Fixierlaschen an der Unterseite des Bildschirms gut halten.

Störungsbehebung

Bildschirm wird nicht mit Strom versorgt

Wenn die Netzanzeige des Bildschirms nicht leuchtet und kein Bild auf dem Bildschirm erscheint, überprüfen Sie bitte Folgendes:

- ❑ Sehen Sie nach, ob das Netzkabel vollständig in den Netzanschluss am Bildschirm und in eine funktionstüchtige Netzsteckdose eingesteckt ist.
- ❑ Testen Sie die Netzsteckdose, indem Sie ein funktionierendes elektrisches Gerät, z. B. eine Lampe, anschließen.
- ❑ Halten Sie die Netztaste gedrückt und warten Sie, bis die Netzanzeige aufleuchtet.
- ❑ Schließen Sie den Bildschirm mit einem anderen Netzkabel an. Verwenden Sie das Netzkabel des Computers und schalten Sie den Bildschirm mit nicht angeschlossenem Signalkabel ein. Wenn der Bildschirm korrekt arbeitet, erscheint nun eine Selbsttestanzeige.

Auf dem Bildschirm erscheint kein Bild

Wenn die Netzanzeige des Bildschirms leuchtet, aber kein Bild auf dem Bildschirm erscheint, überprüfen Sie bitte Folgendes:

- ❑ Überprüfen Sie, ob der Videoanschluss richtig eingesteckt ist. Ziehen Sie die Schrauben am Anschluss manuell fest an.
- ❑ Überprüfen Sie, ob der Computer eingeschaltet ist.
- ❑ Verstärken Sie Kontrast und Helligkeit mit den entsprechenden Reglern.
- ❑ Schalten Sie den Bildschirm aus und lösen Sie das Color Reference-Signalkabel. Überprüfen Sie, ob am Kabelstecker Teile verbogen oder abgebrochen sind.
- ❑ Schalten Sie den Bildschirm ein, ohne zuvor das Signalkabel wieder anzuschließen. Wenn der Bildschirm korrekt arbeitet, erscheint nun eine Selbsttestanzeige.
- ❑ Setzen Sie den Bildschirm zurück.

Installieren der Color Reference-Software

Macintosh

1 Legen Sie die Color Reference-CD in das CD-ROM-Laufwerk am Computer ein.

2 Doppelklicken Sie auf das Color Reference-Symbol, das auf dem Desktop des Computers erscheint.

3 Doppelklicken Sie auf das Symbol "Color Reference Installer".

4 Befolgen Sie zum Installieren der Software die Anweisungen auf dem Bildschirm.

5 Starten Sie den Computer neu.

DE

Windows

1 Bevor Sie die Software installieren, trennen Sie die USB-Verbindung zwischen dem Color Reference-Signalkabel und dem Bildschirm. Trennen Sie auch die USB-Verbindung des Color Reference-Sensors. Andernfalls wird die Software nicht richtig installiert.

2 Legen Sie die Color Reference-CD in das CD-ROM-Laufwerk am Computer ein.

3 Klicken Sie auf das Symbol "Arbeitsplatz" auf dem Desktop.

4 Doppelklicken Sie auf das Symbol für das CD-ROM-Laufwerk, in das Sie die Color Reference-CD eingelegt haben.

5 Befolgen Sie zum Installieren der Software die Anweisungen auf dem Bildschirm.

6 Schließen Sie den USB-Stecker des Color Reference-Signalkabels und den USB-Stecker des Color Reference-Sensors wieder an den Computer an.

7 Befolgen Sie die Anweisungen auf dem Bildschirm und installieren Sie die Treiber für das signalkabel und den sensor.

Hinweis: Wenn Sie dazu aufgefordert werden, den Pfad für die Color Reference-Treiber einzugeben, geben Sie mit der Funktion "Durchsuchen" von Windows das CD-ROM-Laufwerk an, in dem sich die Color Reference-CD befindet.

8 Starten Sie den Computer neu.

Kalibrieren des Color Reference System

Vorbereiten des Systems für die Kalibrierung

1 Vergewissern Sie sich, dass die Farben auf "Millionen" oder mindestens 16-Bit-Farbe eingestellt sind.

2 Der Bildschirm muss sich im Modus "Professional" befinden. Drücken Sie dazu die Taste "Picture Effect" an der Vorderseite des Bildschirms GDM-C520, bis auf dem Bildschirm die Anzeige "Professional" erscheint.

3 Lassen Sie den Bildschirm vor dem Kalibrieren mit recht hellem Bildschirm (über 50 % weiß) eingeschaltet, damit er sich erwärmen kann.

4 Vergewissern Sie sich, dass der Color Reference-Sensor an einen der USB-Anschlüsse des Computers angeschlossen ist.

5 Verringern Sie die Beleuchtung im Raum auf unter 64 lx. Idealerweise sollte die Umgebungsbeleuchtung etwa 16 lx betragen.

Kalibrieren des Systems

1 Doppelklicken Sie auf das Color Reference-Symbol, um die Anwendung zu starten. Der Hauptbildschirm wird angezeigt.

2 Wählen Sie einen Zielfarbraum aus dem Dropdown-Menü "Target Colorspace". Wählen Sie eine der drei folgenden Optionen aus:

Print RGB D50: Standardfarbraum für professionelle Druckvorstufe und Druck in den USA.
Print RGB D65: Standardfarbraum für professionelle Druckvorstufe und Druck in Europa.
Web RGB (sRGB): Standardfarbraum für Ausgabe über Computerbildschirme, Fernsehgeräte und Videos.

3 Klicken Sie auf die Schaltfläche "Calibrate".

4 Zentrieren Sie den Color Reference-Sensor über dem Ziel in der Mitte des Bildschirms und verwenden Sie dazu die Kontrollmarkierungen auf dem Bildschirm und dem Sensor.

5 Klicken Sie auf die Schaltfläche "Start". Es dauert etwa 10 Minuten, bis das System vollständig kalibriert ist.

6 Wenn die Kalibrierung abgeschlossen ist, erscheint die Meldung "Calibration Complete". Entfernen Sie den Color Reference-Sensor.

7 Die neue Kalibrierung ist nun aktiv und wird unter dem Dropdown-Menü "Calibration Data" auf dem Hauptbildschirm angezeigt.

Technische Daten - Kurzübersicht

Betriebsspannung	100 – 240V ~ 50 – 60Hz, 2,0 – 1,0
Betriebstemperatur	10°C – 35°C
Abmessungen	ca. 497 x 499 x 487 mm
Gewicht (nur Bildschirm)	ca. 30,5 kg
In der Verpackung enthaltenes Zubehör	Bildschirm GDM-C520 Netzkabel Color Reference-Signalkabel Color Reference-Sensor und Schutzhülle Bildschirmhaube Fixierlaschen (für die Bildschirmhaube) Color Reference System-CD Kurzreferenz Garantiekarte

Wenn Sie weitere Informationen zum Konfigurieren des Bildschirms oder Kalibrieren des Systems benötigen, schlagen Sie bitte im Benutzerhandbuch auf der Artisan Color Reference System-CD nach. Wenn Sie darüber hinaus Unterstützung brauchen, wenden Sie sich an Sony unter http://www.sony.com/displays/support oder telefonisch unter 1-866-256-9392.

Sony online http://www.world.sony.net/

Sony Corporation

Printed in USA